

Historic, Archive Document

Do not assume content reflects current
scientific knowledge, policies, or practices.

SIA/SIA

1.96
R318N
Cgo 3.

Water Supply Outlook For Nevada

RECEIVED
MAY 13 1983
U.S. DEPARTMENT OF AGRICULTURE
NATIONAL FOREST SERVICE



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

NEVADA DEPARTMENT of CONSERVATION
AND NATURAL RESOURCES
DIVISION OF WATER RESOURCES

AS OF
April 1, 1983

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: FRESH POWDER SNOW ON ELEPHANT MOUNTAIN, NEAR WEST FORK OF HYALITE CREEK, MONTANA

Published by Soil Conservation Service

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR NEVADA

**AND
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS**



Issued by

**PETER C. MYERS
CHIEF
SOIL CONSERVATION SERVICE
WASHINGTON D.C.**



Released by

**GERALD THOLA
STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
RENO, NEVADA**

In Cooperation with

**ROLAND D. WESTERGARD
DIRECTOR
DEPARTMENT OF CONSERVATION AND
NATURAL RESOURCES
CARSON CITY, NEVADA**

For Further Information
Please Contact
The Soil Conservation Service
in

Battle Mountain, Nevada
Highway 8A, Lemaire Road
Phone: 702-635-2650

Caliente, Nevada
360 Lincoln Street
Phone: 702-726-3101

Cedarville, California
USDA Building
Phone: 916-276-6110

Elko, Nevada
Post Office Building
Phone: 702-738-8431

Ely, Nevada
1190 Avenue E
Phone: 702-289-4065

Eureka, Nevada
Sentinel Building
Phone: 702-237-5251

Fallon, Nevada
111 Sheckler Road
Phone: 702-423-5124

Las Vegas, Nevada
310 Almond Tree Lane
Phone: 702-385-6426

Lovelock, Nevada
1055 Cornell Street
Phone: 702-273-2134

Minden, Nevada
1694 County Road
Phone: 702-782-3661

Reno, Nevada
1281 Terminal Way
Phone: 702-784-5408

South Lake Tahoe, California
3552 Highway 50, Suite 1
Phone: 916-541-1496

Tonopah, Nevada
170 Mineral Street North
Phone: 702-482-3942

Winnemucca, Nevada
1200 Winnemucca Blvd., East
Phone: 702-623-2265

Yerington, Nevada
215 West Bridge Street
Phone: 702-463-2265

Report Prepared by

THE SNOW SURVEY AND WATER SUPPLY FORECAST UNIT
James K. Marron, Snow Survey Supervisor
Nancy Gordon, Hydrologist
Jon P. Lea, Hydrologist
Soil Conservation Service
P.O. Box 4850
Reno, Nevada

TABLE OF CONTENTS

WATER SUPPLY OUTLOOK FOR NEVADA	1-3
BASIN AVERAGE SNOW WATER CONTENTS, 1952 - 1983.	4-5
PROSPECTIVE WATER SUPPLY FOR NEVADA (Map)	6
INDEX OF NEVADA SNOW COURSES (By Basins).	7
WINTER SNOWPACK	8
NEVADA STREAMFLOW FORECASTS	9
RESERVOIR STORAGE	10
SATELLITE SNOW COVER MAP	
TAHOE-TRUCKEE, CARSON, AND WALKER BASINS.	11
HUMBOLDT RIVER ABOVE COMUS, NEVADA.	12
SNOW COURSE MEASUREMENTS.	13-16
PRECIPITATION MEASUREMENTS.	17-18
SNOTEL MEASUREMENTS and STREAMFLOW HYDROGRAPHS	
MT. ROSE SKI AREA and WARD CREEK #3	19
EBBETTS PASS and EAST FORK CARSON RIVER	20
SONORA PASS BRIDGE and SPRATT CREEK	21
LAMOILLE #3 and LAUREL DRAW	22
DORSEY BASIN and FALLEN LEAF.	23
LIST OF COOPERATORS	Inside Back Cover

All averages are for 1963-77 period.

WATER SUPPLY OUTLOOK FOR NEVADA

*
* Water supplies throughout Nevada and the East Slope of the *
* Sierra will be excellent. Many measurements of the snowpack *
* across Nevada have set new records for depth and/or water *
* content. Basin snowpack measurements show the Tahoe-Truckee *
* Basin at 207 percent of average, the Carson-Walker at 216 *
* percent, the Humboldt River at 210 percent, and the Snake- *
* Owyhee at 150 percent. *
*

SIERRA EAST SLOPE

March snowpack water contents have risen from 169 percent of average on March 1 to 207 percent of average in the Truckee-Tahoe Basin for April 1. This raises 1983 from the fifth highest snowpack year on record to the second highest year. Ten snow courses in the Truckee-Tahoe Basin have set record snow depth and water content records. For example, Marlette Lake measured 118 inches deep and 47.3 inches water content. The previous high measurement was in 1969 at 108 inches depth and 45.4 inches water content. Marlette Lake has records which date back to 1915. Another significant example is Lake Lucille in the Desolation Wilderness. This site measured 267 inches depth and 113.4 inches water content. The previous high was in 1952 at 244 inches depth and 111.0 inches water content. Lake Lucille has been measured since 1913.

Donner Summit snow course with measurements since 1910 measured 184 inches tying the previous maximum depth in 1952. More importantly the water content was measured at 87.2 inches which exceeds the previous high by 5.2 inches. Fordyce Lake and Furnace Flat just west of the Truckee also have long records with the first measurements taken in 1918. Both of these sites have set record water contents this year.

In the Carson-Walker drainage, the snowpack has risen from 172 percent of average on March 1 to 216 percent of average at this survey. This year is the third highest on record and will produce excessive water. In this basin, six snow courses have set depth and/or water content records. Sonora Pass, measured since 1930, is 115 inches deep and contains 51.6 inches of water. The previous record was in 1969 with 120 inches depth and contained 51.4 inches of water.

Reservoir storage in reservoirs along the East Slope of the Sierra is excellent at 116 percent of the 1963-77 average. Lake Tahoe has maintained its elevation since March 1st. Maintaining the elevation of Lake Tahoe during March was a critical element in the management of the Truckee River system. The current discharge from Lake Tahoe is 1800 cubic feet per second (cfs). At 1800 cfs approximately 100,000 acre feet are released from the Lake in a months time.

At this rate Lake Tahoe will have sufficient storage to handle this year's snowpack runoff and still be below the 6229.1 foot critical elevation. The greatest impact will be on Pyramid Lake which has risen 6.05 feet since October 1, 1982 and may rise up to nine feet before the end of the water year.

In the Walker drainage, the situation is much more critical due mainly to the size of the reservoirs. Topaz and Bridgeport Reservoirs are being drawn down significantly so they will be able to pass the runoff expected from this third highest snowpack on record.

HUMBOLDT BASIN

Snowpack in the Humboldt drainage also increased substantially during March rising from 167 percent of average to 210 percent of average. The most significant area in the Humboldt Basin was the lower portion near Winnemucca which measured 284 percent of average as compared to 176 percent of average in the upper portion near Elko.

Five record measurements were taken in the Humboldt drainage, most of them in the Santa Rosa Mountains. Four of the five snow courses setting records have been measured since 1963 and the fifth since 1958. The most significant was Granite Peak measured at 99 inches depth and 37.0 inches water content. The previous record was 60 inches depth and 25.6 inches water content. Others setting records were Lower Buckskin, Golconda #2, Lamance Creek, and Martin Creek.

Water supplies will be excellent with forecasts ranging from 125 percent of average on Lamoille Creek to 258 percent of average on the Little Humboldt. The Humboldt River at Palisades is forecast at 500,000 acre feet. This would be the second highest flow on record for the April-July period.

Reservoir storage in Rye Patch Reservoir has dropped 10,000 acre feet during March, but storage still remains above average at 127 percent of average. The useable capacity of Rye Patch is 194,000 acre feet leaving about 27,000 acre feet that could be filled during the runoff season.

OWYHEE AND SNAKE BASINS

The Snake-Owyhee Basin will also have an excellent water supply. The snowpack, at 150 percent of average, is the third highest year on record. 1982 was the second highest on record since 1952.

Streamflow forecasts will be excellent, ranging from 122 percent of average on Salmon Falls Creek to 204 percent of average on the South Fork of the Owyhee. The Owyhee River near Owyhee is expected to flow 145,000 acre feet which is 181 percent of average.

Wildhorse Reservoir contains 63,000 acre feet of water which is 180 percent of average. Inflow to Wildhorse is forecast at 38,000 for the April-July period.

EASTERN NEVADA

The snowpack in Eastern Nevada is 195 percent of average and 114 percent of last year.

Water supplies will be excellent with both Steptoe Creek and the Franklin River well above average at 225 percent and 204 percent of average, respectively.

SOUTHERN NEVADA

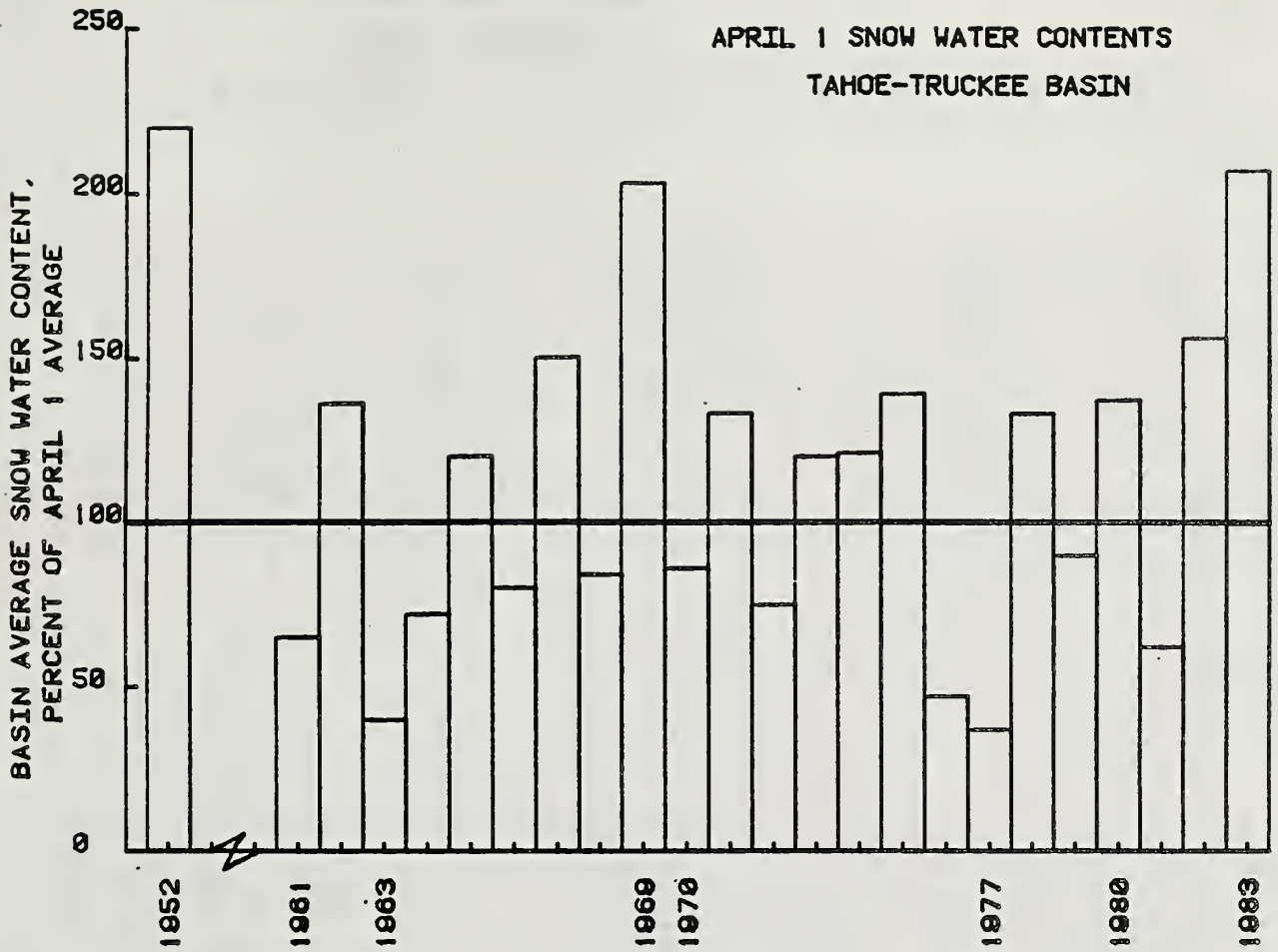
Snowpack in the Central Great Basin and Lower Colorado are excellent at 247 percent of average in the Central Great Basin and 296 percent of average in the Lower Colorado. These basins have increased from 132 percent of average and 247 percent of average on March 1st.

The Virgin River should provide an excellent supply of water for irrigation. Runoff for the Virgin River is forecast at 120,000 acre feet, and 250 percent of average.

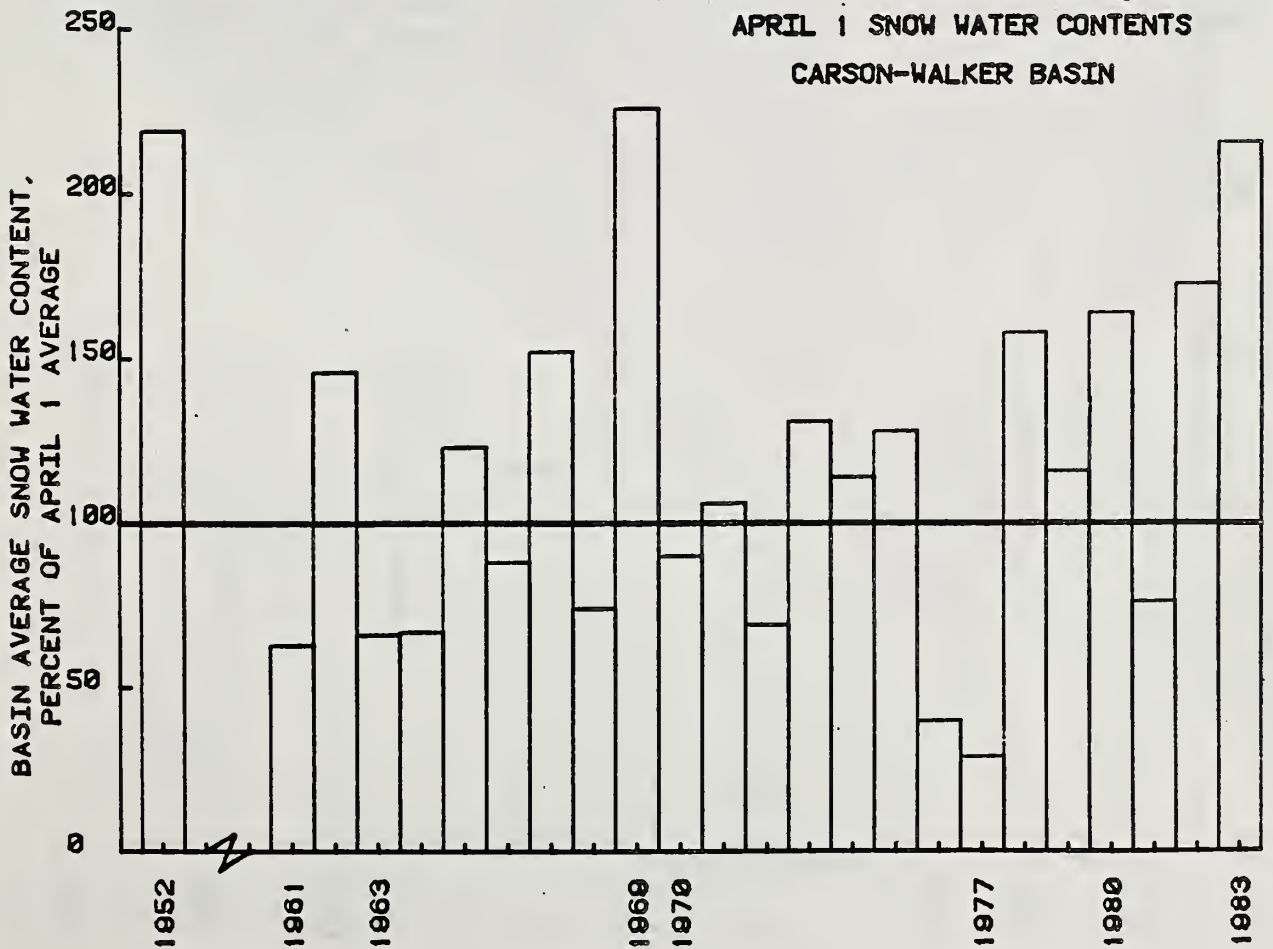
NORTHERN GREAT BASIN

In March, the Northern Great Basin was 176 percent of average. It is now 208 percent of average and water supplies should be excellent. Forecasts range from 163 percent of average on Eagle Creek in the Surprise Valley to 192 percent of average on the Quinn River near McDermitt.

APRIL 1 SNOW WATER CONTENTS
TAHOE-TRUCKEE BASIN

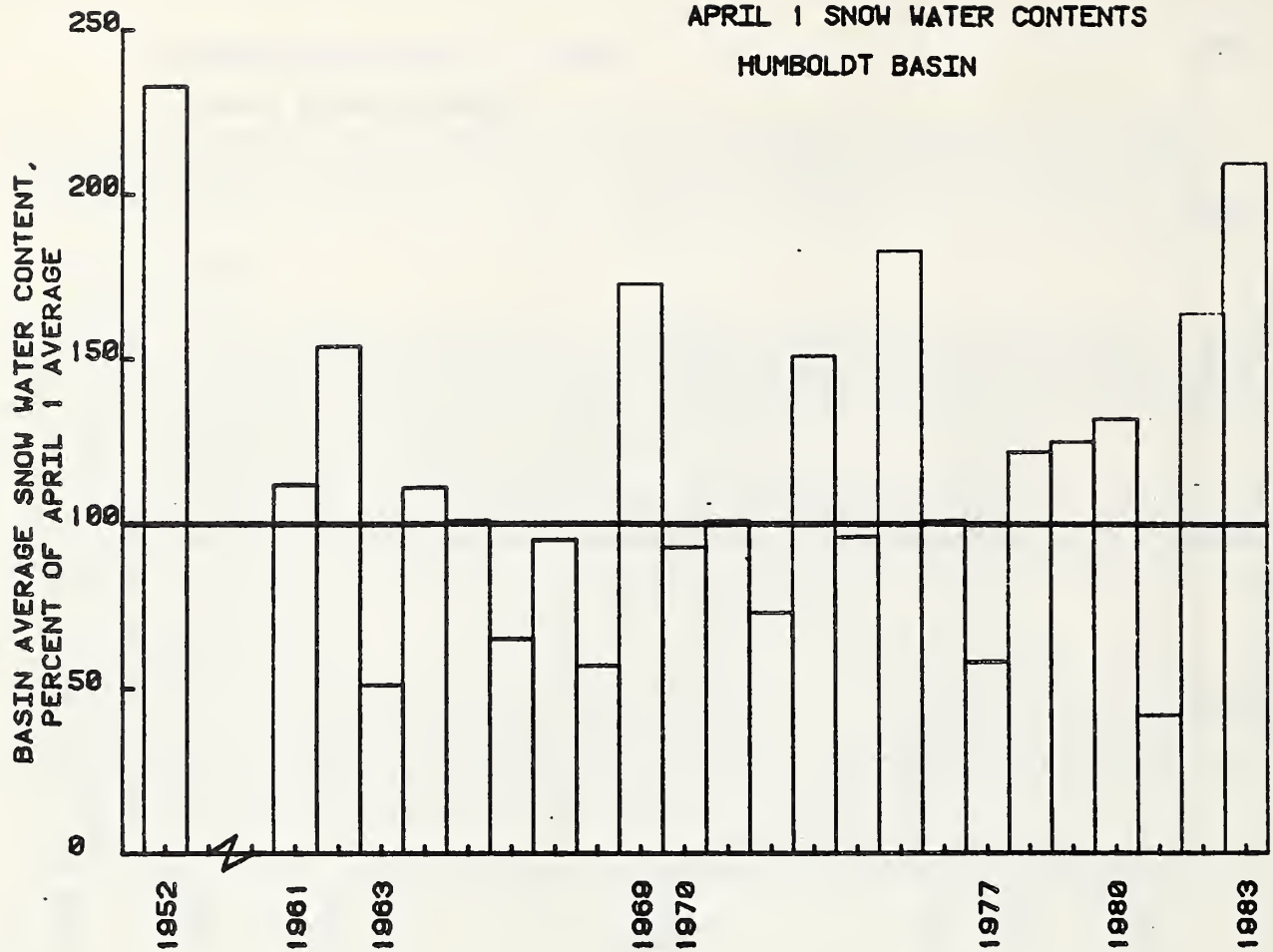


1963-77 average
APRIL 1 SNOW WATER CONTENTS
CARSON-WALKER BASIN



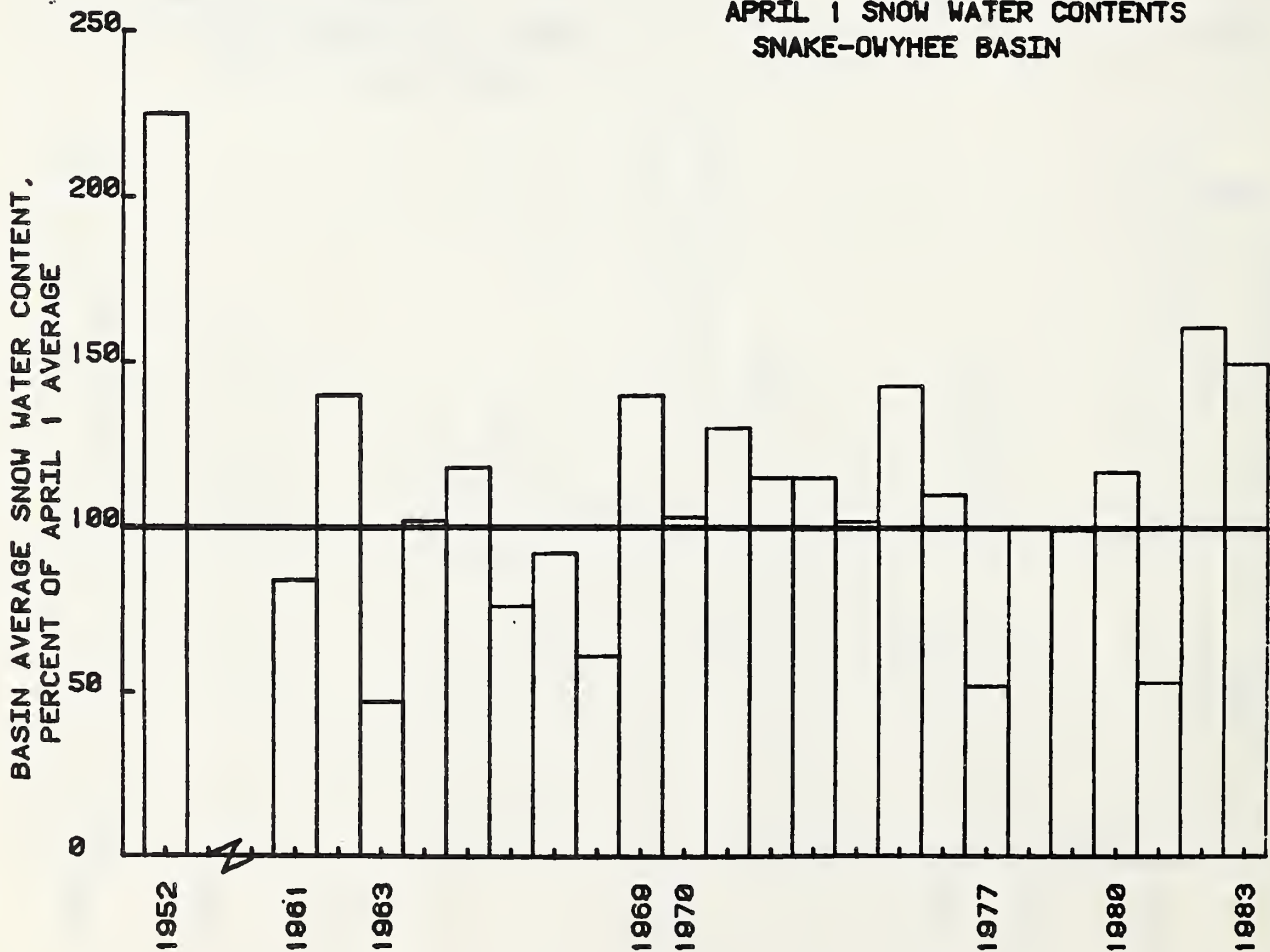
APRIL 1 SNOW WATER CONTENTS

HUMBOLDT BASIN



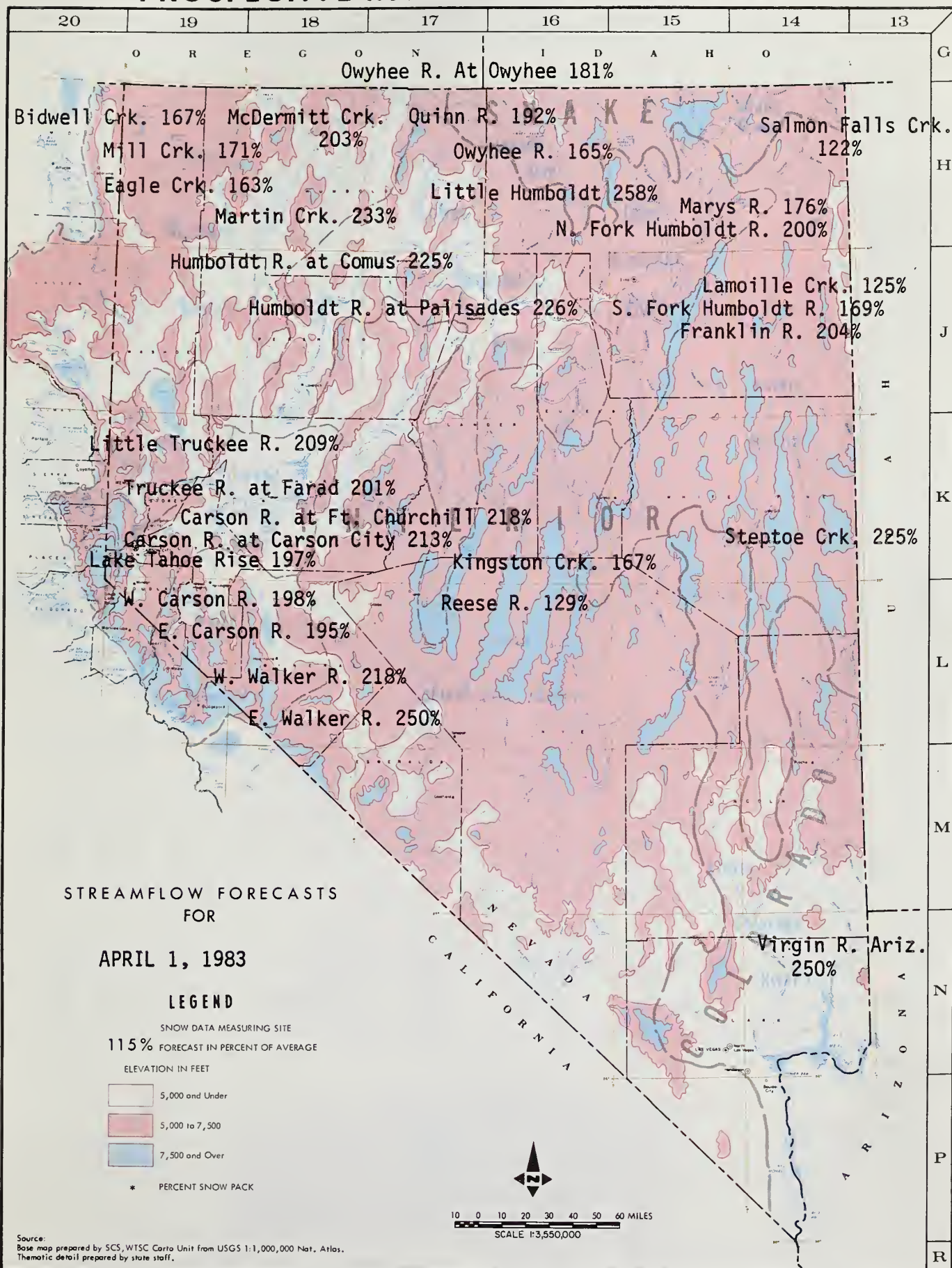
1963-77 average

APRIL 1 SNOW WATER CONTENTS SNAKE-OWYHEE BASIN



1963-77 average

PROSPECTIVE WATER SUPPLY FOR NEVADA



INDEX TO NEVADA SNOW COURSES

(By Basins)

Refer to the map on the preceeding page for Snow Course locations.

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.	NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.
SNAKE RIVER BASIN						LAKE TAHOE					
SNAKE RIVER						TRUCKEE RIVER					
15H015A	Bear Creek	31	46N	58E	7800	20L065	Echo Peak (CA)	35	12N	17E	7800
15H02	Fox Creek	33	46N	58E	6800	20L05	Echo Summit (CA)	6	11N	18E	7450
15H135A	Goat Creek	31	46N	60E	8800	20L10S	Fallen Leaf (CA)	3	13N	17E	6300
15H15A	Hummingbird Springs	6	45N	60E	8945	19L02	Freel Bench (CA)	36	12N	18E	7300
15H20a	Merritt Mountain	10	46N	54E	7900	19K06	Glenbrook #2	13	14N	18E	6900
15H14S	Pole Creek Ranger Station	13	46N	59E	8330	19L035	Hagan's Meadow (CA)	36	12N	18E	8000
15H18a	Red Point	15	47N	61E	7940	19L245	Heavenly Valley (CA)	1	12N	18E	8850
15H035A	Seventy Six Creek	6	44N	58E	7100	20L04	Lake Lucille (CA)	28	12N	17E	8200
15H19a	Stag Mountain	32	41N	58E	7800	19K045	Marlette Lake	18	15N	19E	8000
OWYHEE RIVER						20L03	Richardsons #2 (CA)	6	12N	18E	6500
15H045	Big Bend	30	45N	56E	6700	20L01	Rubicon #1 (CA)	6	13N	17E	8100
15H06a	Columbia Basin	31	44N	53E	6650	20L025	Rubicon #2 (CA)	6	13N	17E	7500
16H08a	Fawn Creek	2	45N	52E	7000	20K16	Tahoe City (CA)	6	15N	17E	6250
16H135	Fawn Creek #2	2	45N	52E	7050	20K275	Tahoe City Cross (CA)	1	15N	16E	6750
15H05	Gold Creek	32	45N	56E	6600	19L01	Upper Truckee (CA)	21	12N	18E	6400
16H01	Jack Creek, Lower	18	42N	53E	6800	20K17	Ward Creek #2 (CA)	21	15N	16E	7000
16H02A	Jack Creek, Upper	9	42N	53E	7250	20K255	Ward Creek #3 (CA)	21	15N	16E	6750
16H095	Jack Creek #2, Upper	9	42N	53E	7250	CARSON RIVER					
16H04S	Jacks Peak	21	42N	53E	8420	20K14	Boca #2 (CA)	28	18N	17E	5900
16H055	Laurel Draw	20	45N	53E	6700	20K22	Brockway Summit (CA)	3	17N	16E	7100
17G04a	Louse Canyon (OR)	27	40S	44E	6440	20K28	Castle Creek (CA)	23	17N	14E	7400
15H095	Taylor Canyon	35	39N	53E	6200	20K21	Gonner Park #2 (CA)	18	17N	16E	6000
INTERIOR						20K10	Gonner Summit (CA)	25	17N	14E	6900
UPPER HUMBOLDT RIVER						20K07*	Fordyce Lake (CA)	34	18N	13E	6500
15J17a	American Beauty	32	31N	58E	7800	20K08*	Furnace Flat (CA)	10	17N	13E	6700
15J125A	Corral Canyon	27	28N	57E	8500	20K045	Independence Camp (CA)	34	19N	15E	7000
15J01S	Doorsey Basin	28	35N	60E	8100	20K035	Independence Creek (CA)	14	19N	15E	6500
15J03	Dry Creek	5	34N	60E	6500	20K055	Independence Lake (CA)	9	18N	15E	8450
15H07P	Fry Canyon	31	43N	54E	6700	19K03	Little Valley	17	16N	19E	6300
15J095	Green Mountain	23	29N	57E	8090	20K025	Mt. Rose	7	17N	19E	9000
15J10	Harrison Pass #1	9	28N	57E	6600	19K075	Mt. Rose Ski Area	30	17N	19E	9000
15J11	Harrison Pass #2	16	28N	57E	7400	20K06	Sage Hen Creek (CA)	7	18N	16E	6500
15J04	Lamoille #1	15	32N	58E	7100	20K19	Squaw Valley #2 (CA)	6	15N	16E	7500
15J06S	Lamoille #3	24	32N	58E	7700	20K305	Squaw Valley Gold Coast (CA)	36	16N	15E	8200
15J08	Lamoille #5	31	32N	59E	8700	20K135	Truckee #2 (CA)	22	17N	16E	6400
15J20	Pole Canyon #2	6	34N	61E	7700	20K02*	Webber Lake (CA)	29	19N	14E	7000
15J16a	Robinson Lake	23	33N	59E	9200	20K01*	Webber Peak (CA)	30	19N	14E	8000
15H06P	Rodeo Flat	36	43N	53E	6800	COLORADO					
15J02	Ryan Ranch	1	34N	59E	5800	19L055	Blue Lakes (CA)	30	9N	19E	8000
15J19	Smith Creek	26	30N	57E	7600	19L04	Carson Pass, Upper (CA)	22	10N	18E	8600
15J22a	Tent Mountain, Lower	26	36N	60E	7000	19K05	Clear Creek	6	14N	19E	7300
15J23a	Tent Mountain, Upper	35	36N	60E	8350	19L19A	Ebbetts Pass (CA)	17	8N	20E	8700
15H08	Tremewan Ranch	9	39N	55E	5700	19L325	Ebbetts Pass #2 (CA)	17	8N	20E	8700
15H10P	Trout Creek, Lower	28	37N	61E	6900	19L16a	Fish Valley, Upper (CA)	1	7N	22E	8050
15H11A	Trout Creek, Upper	4	36N	61E	8500	19L40A	Monitor Pass (CA)	31	9N	21E	8350
LOWER HUMBOLDT RIVER						19L16a	Fish Valley, Upper (CA)	1	7N	22E	8050
17K01	Big Creek Campground	10	17N	43E	6600	19L065A	Poison Flat (CA)	25	8N	21E	7900
17K02	Big Creek Mine	23	17N	43E	7600	19L395	Spratt Creek (CA)	31	10N	20E	6100
17K045	Big Creek Summit	35	17N	43E	8700	19L315	Wet Meadows #2 (CA)	26	9N	19E	8100
17K03	Big Creek, Upper	26	17N	43N	7800	19L18a	Wet Meadows Lake (CA)	26	9N	19E	8050
17H02A5	Buckskin, Lower	25	45N	39E	6700	19L20a	Wolf Creek (CA)	35	8N	20E	8000
17H01A	Buckskin, Upper	11	45N	39E	8200	WALKER RIVER					
17L01	Corral, Lower	12	11N	40E	7500	19L11	Buckeye Forks (CA)	20	4N	23E	8500
17L02	Corral, Upper	20	11N	41E	8900	19L10	Buckeye Roughs (CA)	15	4N	23E	7900
17J02	Golconda #2	22	35N	39E	6000	19L12	Center Mountain (CA)	4	3N	23E	9400
17H045A	Granite Peak	22	44N	39E	7800	19L30A	Center Mountain (CA)	4	3N	23E	9400
17H055A	Lamance Creek	13	42N	38E	6000	19L08S	Leavitt Lake (CA)	13	5N	21E	9400
17H03AP	Martin Creek	13	44N	38E	6700	19L38	Leavitt Meadows (CA)	4	5N	22E	7200
16H03AP	Midas	18	39N	46E	7200	19L175A	Lobdell Lake (CA)	20	7N	24E	9200
16H07a	Toe Jam	29	40N	50E	7700	19L34	Sawmill Ridge (CA)	17	3N	24E	8750
EASTERN NEVADA						19L07	Sonora Pass (CA)	1	5N	21E	8800
14L01	Baker #1	29	13N	69E	7950	19L235	Sonora Pass Bridge (CA)	6	5N	22E	8800
14L02	Baker #2	30	13N	69E	8950	19M01*	Tioga Pass (CA)	30	1N	25E	9900
14L03	Baker #3	25	13N	68E	9250	19L13	Virginia Lakes (CA)	5	2N	25E	9500
14K025A	Berry Creek	26	17N	65E	9100	19L225	Virginia Lakes Ridge (CA)	32	2N	25E	9200
14K01	Bird Creek	34	19N	65E	7500	19L09	Willow Flat (CA)	21	5N	23E	8250
14K09a	Oefiance Mines	9	14N	63N	9200	COLORADO					
15J155A	Hole-in-Mountain	6	35N	61E	7900	LOWER COLORADO RIVER					
14K08	Kalamazoo Creek	34	20N	65E	7400	15L02a	Corduroy Flat	14	13N	58E	8720
14K03	Murray Summit	25	16N	62E	7250	14M04a	Ella Mountain	35	5S	67E	7050
15K01	Robinson Summit	34	18N	61E	7600	15N05	Kyle Canyon	26	19S	56E	8200
14K07	Silver Creek #2	30	16N	69E	8000	15N03	Lee Canyon #2	9	19S	56E	9000
14K055A	Ward Mountain #2	25	15N	62E	9200	15N08	Lee Canyon #3	10	19S	56E	8500
CENTRAL GREAT BASIN						14M01a	Mathew Canyon	10	5S	70E	6000
18M02	Campito Mountain (CA)	19	5S	35E	19200	14L04a	Mt. Wilson	27	5N	68E	8050
18M05a	Chiatovich Flat (CA)	32	2S	34E	10500	14M02a	Pine Canyon	23	6S	69E	6200
15N02	Clark Canyon	8	19S	56E	9900	15N07	Rainbow Canyon #2	6	20S	57E	8100
18M01	Montgomery Pass	4	1N	33E	7100	15L01	White River #1	31	13N	59E	7400
18M03a	Pinchot Creek (CA)	28	1N	33E	9300	15L03a	White River	31	13N	59E	7440
18M04a	Piute Pass (CA)	33	4S	33E	11700	LEGEND					
15N01	Trough Springs	23	18S	55E	8500	NUMBERING SYSTEM (EXAMPLE)					
NORTHERN GREAT BASIN						19K04	Snow Course Only				
19H01a	Bald Mountain	17	45N	21E	6720	19K04S	Snow Course with SNOTEL				
20H05	Barber Creek (CA)	23	39N	16E	6500	19K04A	Snow Course and Aerial Marker				
20H065	Cedar Pass (CA)	12	43N	14E	7100	19K04P	Snow Course and Storage Precipitation Gage				
18G06a	Oeno Creek (OR)	14	41S	34E	6000	Lower case letter "a" indicates no snow course, only an Aerial Marker.					
18H015A	Oisaster Peak	8	47N	34E	6500	SNOTEL has telemetered data for snow pillow, precipitation gage, and temperature. * Adjacent basin.					
20H03a	Oismal Swamp (CA)	31	48N	17E	7000						
20H115	Oismal Swamp #2 (CA)	31	48N	17E	7050						
20H07	Eagle Peak (CA)	35	40N	15E	7200						
19H03P	49 Mountain	7	42N	19E	6000						
19H02	Hays Canyon	1	39N	18E	6400						
19H04a	Little Bally Mountain	8	45N	19E	6000						
20H09P	Mt. Bidwell (CA)	6	47N	16E	7200						
20H10	North Star (CA)	13	47N	16E	6200						
17G05a	Oregon Canyon (OR)	9	40S	40E	7240						
17H06a	Quinn Ridge	9	47N	41E	6300						
20H04	Reservation Creek (CA)	12	46N	15E	5900						
18G05a	Trout Creek (OR)	10	41S	38E	7800						

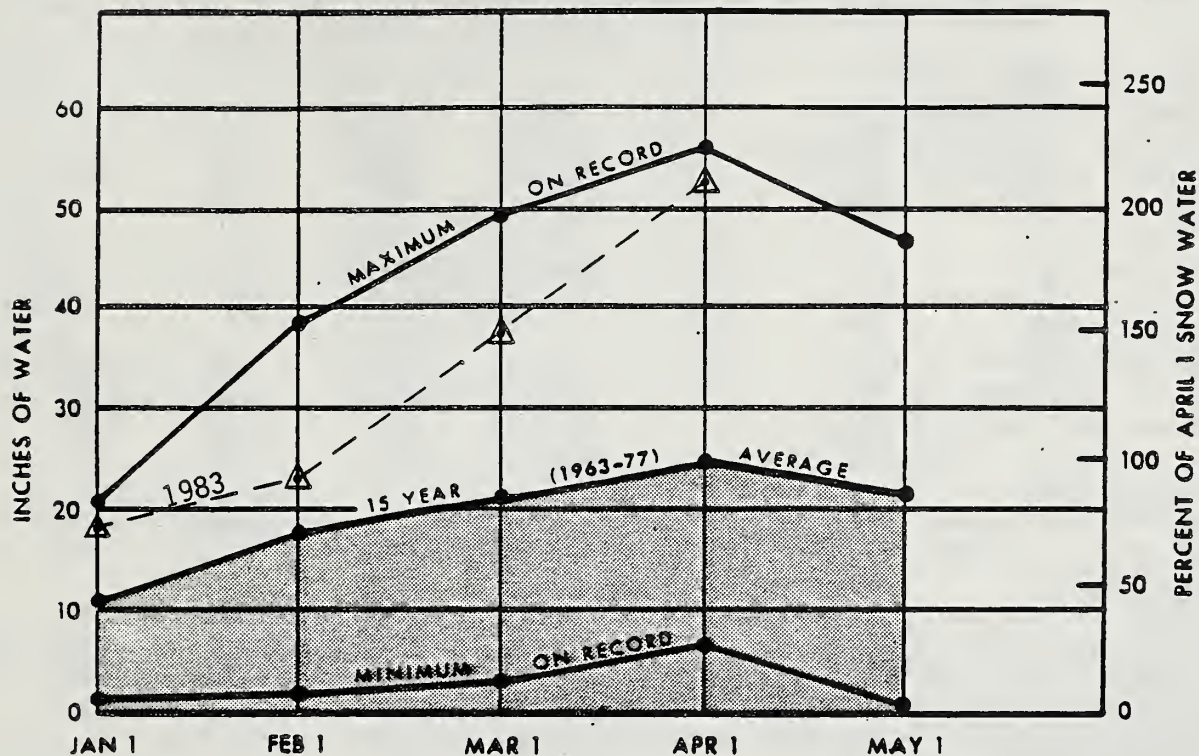
WINTER SNOWPACK

TAHOE, TRUCKEE, CARSON & WALKER BASINS

CALIFORNIA - NEVADA

1983

Data based on 9 long term Snow Courses



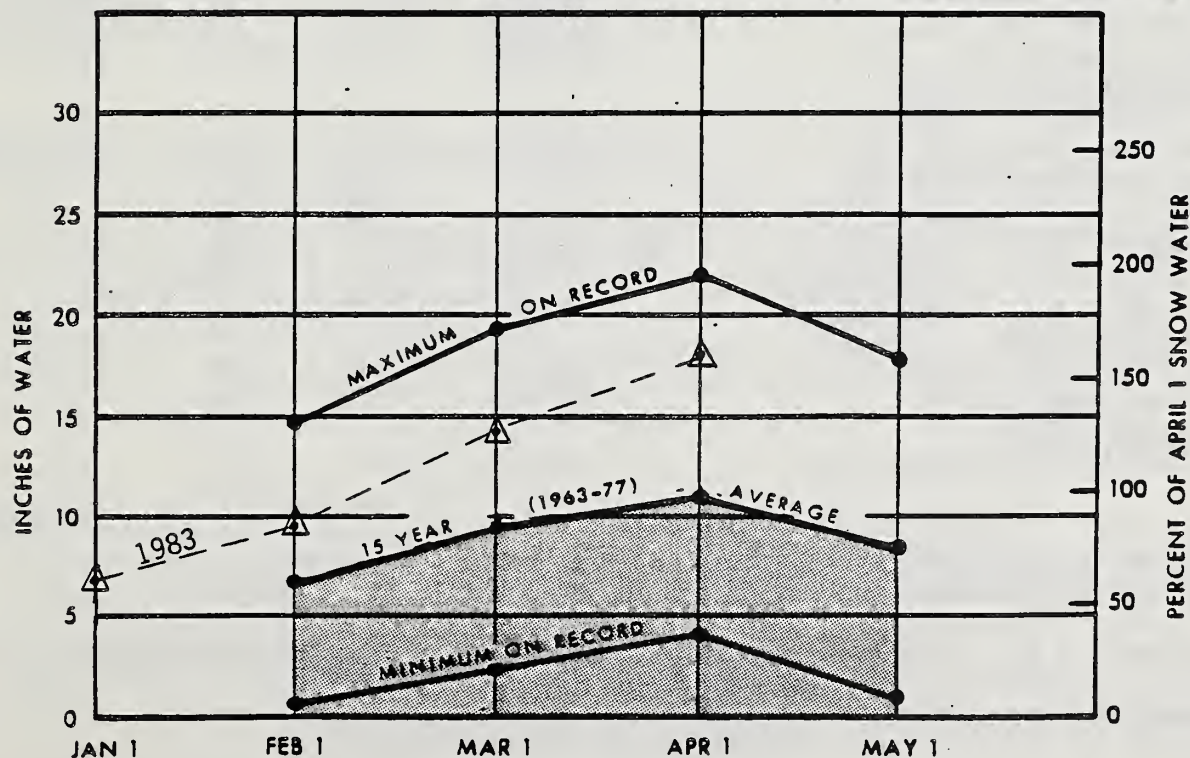
WINTER SNOWPACK

UPPER HUMBOLDT & SNAKE BASINS

NEVADA

1983

Data based on 13 selected Snow Courses



STREAMFLOW FORECASTS (Thousand Acre Feet) as of: April 1, 1983

Forecasts are based on snow-water presently stored in the mountain watersheds and the assumption that precipitation will be near average throughout the forecast period. Peak flow forecasts indicate the most probable range for the maximum average 24-hour flow. All overages are for 1963-77 period.

FORECAST POINT	Forecast Period	Forecast This Year	This Year as Percent of Average	Average †
NORTHERN GREAT BASIN				
Galena Creek near Steamboat, NV.	Apr-Jul	8.5	193	4.4
Little Truckee River above Boca, CA.	Apr-Jul	181	209	87
Truckee River at Farad, CA. 1/	Apr-Jul	550	201	273
Lake Tahoe Rise in feet (assuming gates closed)	Apr 1 to high	2.8	197	1.42
Sage Hen Creek, CA.	Apr-Jul	12.0	185	6.5
Steamboat Creek at Steamboat, NV.	Apr-Jul	10.4	201	5.2
CARSON RIVER				
E. Carson near Gardnerville, NV.	Apr-Jul	355	195	187
W. Carson at Woodfords, CA.	Apr-Jul	105	198	53
Carson River near Carson City, NV.	Apr-Jul	390	213	183
Carson River near Ft. Churchill, NV.	Apr-Jul	365	218	167
WALKER RIVER				
E. Walker near Bridgeport, CA. 2/	Apr-Aug	175	250	69
W. Walker below L. Walker nr Colville, CA.	Apr-Jul	318	218	146
SNAKE RIVER				
Owyhee River near Owyhee, NV. 3/	Apr-Jul	145	181	80
Owyhee River near Gold Creek, NV. 3/	Apr-Jul	38	165	22
S. Fork Owyhee River nr White Rock, NV.	Apr-Jul	170	204	83
Salmon Falls Crk. nr San Jacinto, NV.	Mar-Sep	116	122	95
HUMBOLDT RIVER				
Lamoille Crk. near Lamoille, NV.	Apr-Jul	35	125	28
S. Fork Humboldt above Dixie Crk., NV.	Apr-Jul	125	169	73
Marys River above Hot Springs, NV.	Apr-Jul	65	176	37
N. Fork Humboldt at Devils Gate, NV.	Apr-Jul	70	200	35
Humboldt River at Palisade, NV.	Apr-Jul	500	226	221
Humboldt River at Comus, NV.	Apr-Jul	400	225	175
Kingston Creek near Austin, NV.	Apr-Jul	5.5	167	3.3
L. Humboldt River nr Paradise, Va., NV.	Apr-Jul	25	258	9.7
Martin Creek near Paradise, NV.	Apr-Jul	35	233	15
Reese River near Ione, NV.	Apr-Jul	8.5	129	6.6
Rock Creek nr Battle Mtn., NV.	Apr-Jul	35	220	16
NORTHERN GREAT BASIN				
Bidwell Creek near Ft. Bidwell, CA.	Apr-Jul	20	167	12
Mill Creek near Cedarville, CA.	Apr-Jul	7.0	171	4.1
Deep Creek near Cedarville, CA.	Apr-Jul	6.0	167	3.6
Eagle Creek near Eagleville, CA.	Apr-Jul	7.0	163	4.3
Quinn River nr McDermitt, NV.	Apr-Jul	31	192	16
E. Fork Quinn River nr McDermitt, NV.	Apr-Jul	21.5	166	13
McDermitt Creek near McDermitt, NV.	Apr-Jul	24	203	12
EASTERN NEVADA				
Franklin River near Arthur, NV.	Apr-Jul	12.0	204	5.9
Steptoe Creek near Ely, NV.	Apr-Jul	4.5	225	2
COLORADO RIVER				
Virgin River at Littlefield, AZ.	Apr-June	120	250	48

NOTE: Streamflow forecasts which appear in this Bulletin are a coordinated activity of the National Weather Service and the Soil Conservation Service

1/ Observed flow plus change in storage in Boca, Stampede, and Prosser Reservoirs, Donner, Independence and Martis Creek Lakes, and minus the flow at Truckee.

2/ Observed flow plus change in storage in Bridgeport Reservoir.

3/ Observed flow plus change in storage in Wild Horse Reservoir.

RESERVOIR STORAGE (Thousand Acre Feet) AS OF APRIL 1, 1983

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
Owyhee	Wild Horse	72	63	39	35
Lower Humboldt	Rye Patch	194	167	97	132
Colorado	Mohave	1,810	1,718	1,677	1,700
Colorado	Mead	26,159	24,638	23,038	17,200
Tahoe	Tahoe	745	558	570	496
Truckee	Boca	41	28	31	22
Truckee	Stampede**	222	203	173	126*
Truckee	Prosser***	30	10	9	9*
Carson	Lahontan	295	207	223	242
West Walker	Topaz	59	32	51	47
East Walker	Bridgeport	42	24	36	36

* Adjusted average.
 ** Storage began August 1, 1969.
 *** Flood Control use allocation of 20,000 acre-feet between November 1 and April 10.

TOTAL RESERVOIR STORAGE (Thousand Acre Feet)

MONTH	This Year	Last Year	Average †
October 1	1,172	358	786
January 1	1,070	688	844
February 1	1,114	804	920
March 1	1,089	935	968
April 1	1,079	1,047	1,010
May 1		1,148	1,032

The above data developed from Wild Horse, Rye Patch, Tahoe, Boca, Lahontan, Topaz, and Bridgeport Reservoirs in 1,000 Acre-feet.
TOTAL USABLE CAPACITY 1448

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
E. Fork Carson River nr. Gardnerville, NV.	2700-3400	1865
Carson River nr. Carson City, NV.	3800-4600	2098
Carson River nr. Ft. Churchill, NV.	3200-3900	1914
W. Walker R. below L. Walker nr. Coleville, CA.	2700-3300	1589

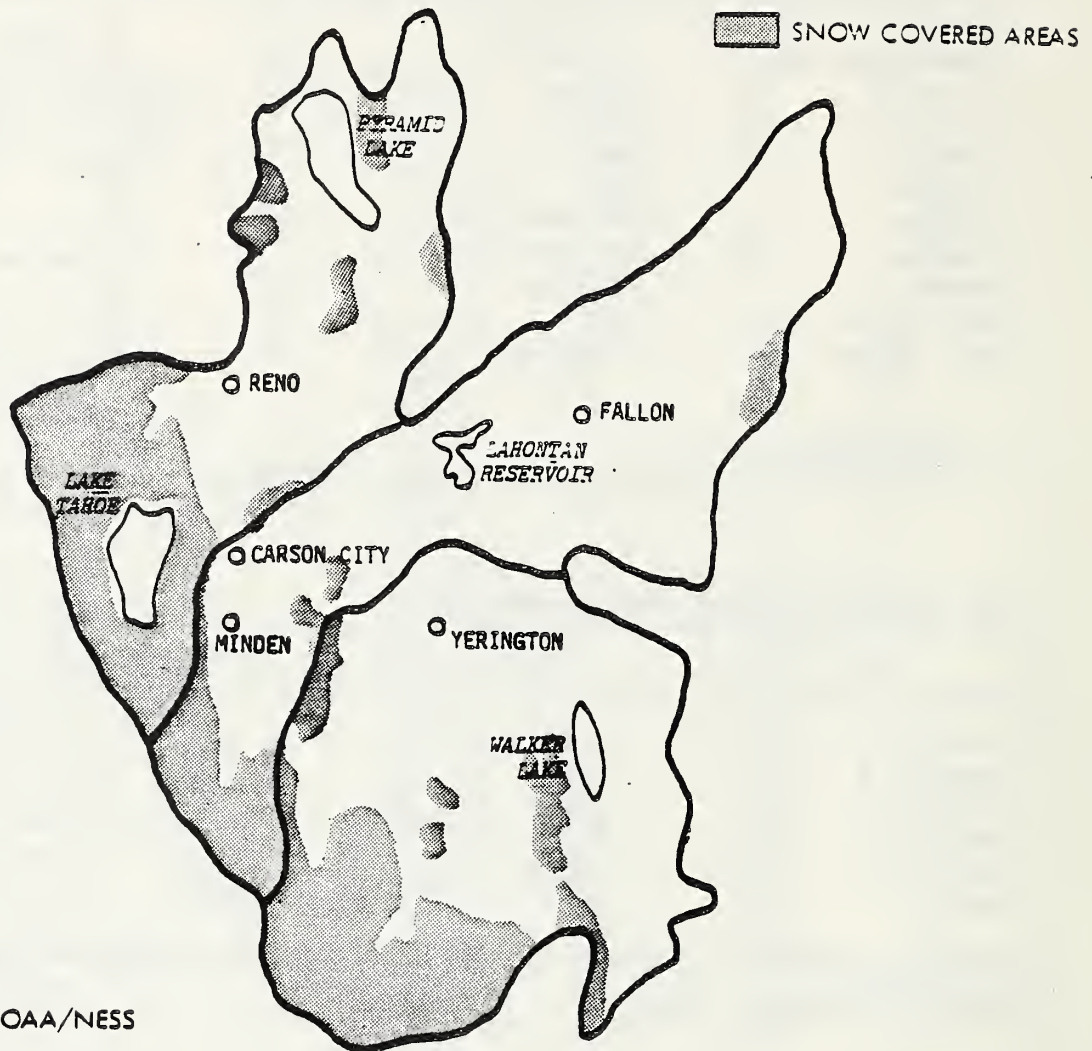
FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
East Carson R. nr. Gardnerville, NV.	200	August 23	July 24
East Carson R. nr. Gardnerville, NV.	500	July 30	June 28

SATELLITE SNOW COVER

TAHOE-TRUCKEE, CARSON AND WALKER BASINS

MARCH 30, 1983



SCALE 1:2,000,000
DATA PROVIDED BY NOAA/NESS
WASHINGTON D.C.

<u>BASIN</u>	<u>THIS YEAR</u>			<u>PERCENT SNOW COVER</u>	<u>LAST YEAR</u>			<u>PERCENT SNOW COVER</u>
TAHOE-TRUCKEE	November	14,	1982	10.6%	November	29,	1981	56.0%
	December	28,	1982	50.0%	January	1,	1982	56.0%
	January	28,	1983	39.8%	January	31,	1982	48.0%
	February	24,	1983	38.0%	February	24,	1982	28.0%
	March	30,	1983	38.0%	March	24,	1982	27.0%
CARSON	November	14,	1982	8.2%	November	29,	1981	30.0%
	December	28,	1982	25.0%	January	1,	1982	24.0%
	January	28,	1983	19.2%	January	31,	1982	48.0%
	February	24,	1983	19.0%	February	24,	1982	10.0%
	March	30,	1983	38.0%	March	24,	1982	12.0%
WALKER	November	14,	1982	16.3%	November	29,	1981	77.0%
	December	28,	1982	46.0%	January	1,	1982	40.0%
	January	28,	1983	52.0%	January	31,	1982	43.0%
	February	29,	1983	34.0%	February	24,	1982	20.0%
	March	30,	1983	29.0%	March	24,	1982	17.0%

SATELLITE SNOW COVER

HUMBOLDT RIVER ABOVE COMUS, NEVADA

MARCH 30, 1983



SCALE 1:2,500,000
DATA PROVIDED BY NOAA/NESS
WASHINGTON, D.C.

<u>THIS YEAR</u>	<u>PERCENT SNOW COVER</u>	<u>LAST YEAR</u>	<u>PERCENT SNOW COVER</u>
November 23, 1983	45.1%	November 26, 1981	24.0%
		November 29, 1981	68.0%
		December 7, 1981	7.0%
		December 16, 1981	18.0%
		December 22, 1981	58.0%
December 28, 1982	87.0%	January 1, 1982	97.0%
		January 6, 1982	100.0%
		January 27, 1982	98.0%
January 28, 1983	94.2%	January 30, 1982	88.0%
		February 6, 1982	87.0%
February 16, 1983	72.2%	February 16, 1982	63.0%
		February 20, 1982	46.0%
February 22, 1983	71.0%	March 6, 1982	42.0%
		March 13, 1982	25.0%
March 30, 1983	38.0%	March 24, 1982	20.0%

SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average †
NAME	Elevation					
LAKE TAHOE						
Echo Peak (CA)	7,800	4/05/83	170	78.0	70.9**	----
Echo Summit (CA)	7,450	3/31/83	153	64.0	46.6	32.5
Fallen Leaf (CA)	6,300	3/30/83	48	19.5	9.1	----
Freel Bench (CA)	7,300	3/31/83	66	25.6	13.3	10.2
Glenbrook #2	6,900	3/28/83	71	26.2	10.0	11.2
Hagan's Meadow (CA)	8,000	4/05/83	97	39.0	26.1	16.5
Heavenly Valley (CA)	8,800	3/31/83	133	45.5	43.3	28.1*
Lake Lucille (CA)	8,200	4/05/83	267	113.4	98.8	55.9
Marlette Lake	8,000	4/05/83	118	47.3	31.9	21.1
Richardsons #2 (CA)	6,500	3/28/83	90	34.5	17.5	15.2
Rubicon #1 (CA)	8,100	N/S			90.6	48.6
Rubicon #2 (CA)	7,500	4/05/83	145	58.3	46.1	29.1
Tahoe City Cross (CA)	6,750	4/05/83	99	41.3	26.8	----
Upper Truckee (CA)	6,400	3/31/83	48	19.4	13.3	7.9
Ward Creek #2 (CA)	7,000	4/01/83	183	76.4	49.0	40.6
Ward Creek #3 (CA)	6,750	4/01/83	158	72.3	54.6	39.4*
TRUCKEE RIVER						
Big Meadows	8,300	4/06/83	103	42.5	34.6	----
Boca #2 (CA)	5,900	3/27/83	33	10.5	1.9	3.9
Brockway Summit (CA)	7,100	3/29/83	114	45.2	21.4	16.9*
Castle Creek (CA)b	7,400	3/31/83	214	100.4	79.6	50.5
Donner Park #2 (CA)	6,000	3/27/83	83	27.9	11.7	16.7
Donner Summit (CA)	6,900	3/28/83	184	87.2	52.5	35.9
Fordyce Lake (CA)	6,500	3/31/83	174	85.4	53.1	38.6
Furnace Flat (CA)	6,700	3/31/83	190	97.4	66.0	45.7
Independence Camp (CA)	7,000	4/05/83	94	45.0	29.4	21.8
Independence Creek (CA)	6,500	4/05/83	77	32.0	16.6	12.7
Independence Lake (CA)	8,450	4/05/83	179	72.2	70.4	41.4
Little Valley	6,300	3/31/83	39	16.1	2.9	6.9
Mount Rose	9,000	4/05/83	140	57.0	56.7**	35.9
Mount Rose Ski Area	8,850	3/31/83	201	75.6	77.9	38.5
Sage Hen Creek (CA)	6,500	3/30/83	89	37.0	14.2	17.3
Squaw Valley #2 (CA)	7,500	N/S			80.1	46.5
Squaw Valley Gold Coast (CA)	8,200	4/05/83	239	104.0	83.2**	----
Truckee #2 (CA)	6,400	3/29/83	77	29.4	17.3	14.3
Webber Lake (CA)	7,000	3/31/83	153	63.8	49.3	28.9
Webber Peak (CA)	8,000	3/30/83	195	80.6	69.2	42.7*
CARSON RIVER						
Blue Lakes (CA)	8,000	3/31/83	174	68.0	52.4	34.6
Carson Pass, Upper (CA)	8,600	3/26/83	166	65.5	60.5	33.1
Clear Creek	7,300	3/31/83	62	22.1	8.6	11.6
Ebbetts Pass AM (CA)	8,700	AM BURIED				33.8a
Ebbetts Pass #2 (CA)	8,700	4/01/83	166	71.0	67.3	----
Fish Valley, Upper AM (CA)	8,050	4/01/83	60	25.2	14.7	13.3a
Monitor Pass AM (CA)	8,350	4/01/83	60	25.2	25.1	----
Poison Flat (CA)	7,900	4/01/83	82	34.1	24.0	17.3*
Spratt Creek (CA)	6,100	4/01/83	24	10.5	----	----
Wet Meadows Lake AM (CA)	8,050	4/01/83	130	58.6	----	25.7*
Wet Meadows #2	8,050	4/01/83	181	81.5	57.2**	----
Wolf Creek AM (CA)	8,000	4/01/83	147	63.0	41.6	27.8*

† 1963-1977 period.

SNOW COURSE MEASUREMENTS

SNOW COURSE MEASUREMENTS		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Elevation				Last Year	Average †
<u>WALKER RIVER</u>						
Center Mountain (CA)	9,400	4/01/83	179	72.7	64.1	34.3*
Leavitt Lake (CA)	9,400	4/01/83	206	94.2	82.8	----
Leavitt Meadows (CA)	7,200	4/01/83	52	22.4	12.8	6.7
Lobdell Lake (CA)	9,200	4/01/83	90	35.1	26.5	16.3
Sawmill Ridge (CA)	8,750	4/01/83	93	37.2	29.4	----
Sonora Pass (CA)	8,800	4/01/83	115	51.6	41.7	23.1
Sonora Pass Bridge (CA)	8,800	4/01/83	119	46.8	48.7**	26.0
Tioga Pass (CA)b	9,900	3/30/83	148	62.7	47.1	24.1
Virginia Lakes (CA)	9,500	4/01/83	83	33.1	27.0	16.0*
Virginia Lakes Ridge (CA)	9,200	4/01/83	89	43.7	27.3	16.9
Willow Flat (CA)	8,250	4/01/83	59	25.0	15.4	9.5
<u>NORTHERN GREAT BASIN</u>						
Bald Mountain AM	6,720	3/31/83	24	8.6	0.0	2.3a
Barber Creek (CA)	6,500	3/25/83	60	22.8	11.6	11.4
Cedar Pass (CA)	7,100	3/23/83	65	24.6	16.3	16.3
Disaster Peak	6,500	3/28/83	63	23.6	10.1**	10.9
Dismal Swamp #2 (CA)	7,000	3/24/83	108	42.0	32.8	----
Eagle Peak (CA)	7,200	3/30/83	77	28.6	21.2	14.5
49 Mountain	6,000	3/28/83	25	9.4	0.5	2.8
Government Corral (OR)	7,450	3/31/83	68	23.0	----	----
Hays Canyon	6,400	3/25/83	30	10.2	0.0	2.6
Little Bally Mountain AM	6,000	3/31/83	21	7.6	0.4	2.0a
Mount Bidwell (CA)	7,240	3/24/83	97	37.6	26.6	26.0*
North Star (CA)	6,200	3/28/83	78	29.3	11.3	19.1*
Oregon Canyon AM (OR)	7,240	4/05/83	30	11.4	2.2	3.6*
Pueblo Summit AM	6,300	N/S			----	----
Quinn Ridge AM	6,300	4/05/83	1	0.1	0.0	0.9a
Reservation Creek (CA)	5,900	3/28/83	57	21.7	10.1	10.5
Trout Creek AM (OR)	7,800	4/05/83	63	23.9	14.4	7.3a
<u>SNAKE RIVER</u>						
Bear Creek	7,800	4/01/83	83	27.8	31.5	21.3
Fox Creek	6,800	4/01/83	41	13.1	14.7	9.9*
Goat Creek	8,800	4/01/83	71	22.0	29.0	18.6
Hummingbird Springs	8,945	4/01/83	91	28.5	37.1	23.7
Jake's Creek AM	7,000	4/01/83	42a	16.0a	4.4a	----
Merritt Mountain AM	7,000	4/01/83	16	5.8	6.9a	5.4a
Pole Creek Ranger Station	8,330	4/01/83	72	23.6	30.6	22.5
Seventy Six Creek	7,100	4/01/83	52	17.4	20.6**	11.4
Stag Mountain AM	7,700	4/01/83	35a	12.6a	11.4a	4.8a.
<u>OWYHEE RIVER</u>						
Big Bend	6,700	3/29/83	38	13.7	14.2	8.2
Columbia Basin AM	6,650	4/01/83	32a	11.2a	11.0a	6.9a
Fawn Creek #2	7,050	3/29/83	71	26.1	26.9**	----
Gold Creek	6,600	3/29/83	21	7.7	8.8	4.8
Jack Creek, Lower	7,250	3/29/83	21	7.0	2.1	2.3
Jack Creek, Upper	7,250	3/29/83	44	15.4	14.1	9.4
Jacks Peak	8,420	3/29/83	106	36.4	37.0	24.4*
Laurel Draw	6,700	3/29/83	38	13.7	11.7	6.8*
Louse Canyon AM (CA)	6,440	4/05/83	29	11.0	5.4	2.6a
Taylor Canyon	6,200	3/29/83	27	10.4	10.0	2.7
Jack Creek #2, Upper	7,250	3/29/83	83	31.2	29.9	----

† 1963-1977 period.

SNOW COURSE MEASUREMENTS

SNOW COURSE MEASUREMENTS		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)	
NAME	Elevation				Last Year	Average †
UPPER HUMBOLDT RIVER						
American Beauty AM	7,800	4/01/83	41a	13.9a	11.6a	8.4a
Corral Canyon	8,500	4/01/83	78	25.6	23.4a	17.5
Dorsey Basin	8,100	4/01/83	69	23.7	22.6	12.3
Draw Creek AM	7,450	4/01/83	38a	14.4a	13.0a	----
Dry Creek	6,500	4/01/83	26	9.6	5.2	1.3*
Fry Canyon	6,700	3/29/83	35	13.4	13.1	6.1
Green Mountain	8,000	4/01/83	68	24.4	20.5**	11.6*
Harrison Pass #1	6,600	4/01/83	19	6.5	4.3	2.0*
Harrison Pass #2	7,400	4/01/83	31	10.6	6.8	4.0*
Lamoille #1	7,100	4/01/83	45	15.6	13.0	7.8
Lamoille #3	7,700	4/01/83	50	16.8	16.3	12.2
Lamoille #5	8,700	4/01/83	99	34.6	46.7	26.9
Pole Canyon #2	7,700	4/01/83	73	26.6	25.2	----
Robinson Lake AM	9,200	4/01/83	108	36.7		27.5a
Rodeo Flat	6,800	3/29/83	37	14.3	10.7	4.9
Ryan Ranch	5,800	4/01/83	4	0.4	0.0	0.1
Smith Creek	7,700	4/01/83	63	21.8	18.8	----
Tent Mountain AM, Lower	7,000	4/01/83	34	10.9	----	15.5a
Tent Mountain AM, Upper	8,350	4/01/83	75	25.5	----	20.5a
Tremewan Ranch	5,700	3/29/83	0	0.0	0.0	0.3
Trout Creek, Lower	6,900	4/01/83	28	6.6	4.4	2.5
Trout Creek, Upper AM	8,500	4/01/83	70a	24.1a	25.4a	18.2a
LOWER HUMBOLDT RIVER						
Big Creek Campground	6,600	3/29/83	3	1.2	0.6	1.1
Big Creek Mine	7,600	3/29/83	34	10.7	5.9	4.1
Big Creek Summit	8,700	3/29/83	75	27.1	14.8	----
Big Creek, Upper	7,800	3/29/83	39	12.1	10.3	6.3
Buckskin, Lower	6,700	3/28/83	51	18.0	11.9**	7.0
Buckskin, Upper	8,200	3/28/83	64	20.4	----	9.9
Golconda #2	6,000	3/29/83	40	14.5	8.2	2.3*
Granite Peak	7,800	3/28/83	99	37.0	26.2**	15.1*
Lamance Creek	6,000	3/28/83	71	27.2	10.0**	6.4
Martin Creek	6,700	3/28/83	60	23.2	----	8.1
Midas	7,200	4/01/83	30a	11.4a	5.0a	1.8
Snowstorm Mountain AM	7,420	4/01/83	69a	24.1a	----	----
Toe Jam AM	7,700	4/01/83	48a	15.8a	12.4a	8.3a*
EASTERN NEVADA						
Baker #1	7,950	3/27/83	32	8.7	9.0	5.8
Baker #2	8,950	3/27/83	67	20.4	18.7	12.8*
Baker #3 AM	9,250	3/29/83	90	27.7	24.8a	15.5a
Berry Creek	9,100	3/28/83	77	23.9	22.3	14.2
Bird Creek	7,500	3/29/83	28	7.7	3.5	2.7
Defiance Mines AM	9,400	3/29/83	96a	29.2a	11.2a	16.6a*
Hole-in-Mountain	7,900	4/01/83	90	33.1	48.2	21.1*
Kalamazoo Creek	7,400	3/21/83	45	15.4	11.5	6.1*
Murray Summit	7,250	3/29/83	23	7.4	3.1	1.6
Robinson Summit	7,600	3/29/83	3	2.0	1.6	1.0
Silver Creek #2 AM	8,000	3/29/83	22	6.8	0.0a	5.1a
Ward Mountain #2 AM	9,200	3/26/83	70	27.4	16.0	7.7a

+ 1963-1977 period.

SNOW COURSE MEASUREMENTS

SNOW COURSE MEASUREMENTS		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>CENTRAL GREAT BASIN</u>						
Clark Canyon	9,000	3/30/83	48	19.0	10.5	6.9*
Montgomery Pass	7,050	3/25/83	0	0.0	0.0	0.8
Northumberland	8,850	3/29/83	49	16.2	----	----
Trough Springs	8,500	3/30/83	38	13.2	8.4	3.5*
<u>LOWER COLORADO RIVER</u>						
Corduroy Flat AM	8,720	3/29/83	50a	16.0a	4.5a	----
Kyle Canyon	8,200	3/31/83	54	23.4	12.3	7.6*
Lee Canyon #2	9,000	3/31/83	57	23.4	11.9	7.7
Lee Canyon #3	8,500	3/31/83	52	20.6	11.0	6.3
Rainbow Canyon #2	8,100	3/31/83	78	31.0	18.0	13.4
White River AM	7,400	3/29/83	33	10.6a	0.0a	----

DESERT RESEARCH INSTITUTE MEASUREMENTS

TAHOE-TRUCKEE BASIN

Alder Creek	6,960	3/31/83	136	62.5	----	----
Apollo Way	7,300	3/31/83	113	45.5	9.7	----
Bennett Flat	6,200	3/31/83	73	31.8	19.4	----
Davis Creek	5,160	N/S			1.4	----
Evergreen Hills Road	5,700	N/S			2.6	----
Galena Creek	7,440	N/S			26.3	----
Hennes Pass Junction	6,410	3/31/83	75	30.7	19.2	----
Hobart Mills	5,850	3/31/83	42	16.6	7.9	----
Incline Lake	8,000	3/31/83	146	57.9	38.4	----
Jones Creek	6,000	3/30/83	9	3.2	3.6	----
Mount Rose Resort	8,280	3/30/83	160	66.4	56.1	----
North Star Fire Department	6,320	3/31/83	35	15.7	8.5	----
Reindeer Lodge	7,060	3/30/83	80	32.3	11.5	----
RNR Test Site	6,400	3/30/83	46	19.1	4.4	----
Sky Tavern	7,620	3/30/83	97	41.7	23.5	----
Spooner Summit	7,620	3/31/83	79	32.7	18.4	----
Squaw Valley Fire Department	6,240	3/31/83	93	43.1	17.8	----
Tahoe City	6,240	3/31/83	77	32.1	19.7	----
Tahoe Meadows	8,540	3/30/83	190	80.0	72.9	----
Tamarack Lake	8,820	N/S			65.2	----
Third and Incline Creeks	6,235	3/31/83	24	10.6	3.7	----
Thunder Cliff	6,200	3/31/83	80	34.1	18.5	----
Truckee Airport	5,900	3/31/83	22	9.4	6.7	----
Whites Creek	5,670	N/S			2.5	----

a Aerial Marker

b Located in adjacent basin

* Less than 15 years old

** SNOTEL provisional

NS Not surveyed this month

NOTE:

All Averages based on 1963-77, 15 year period. Forecast period is April 1 through July 31 unless otherwise noted.

† 1963-1977 period.

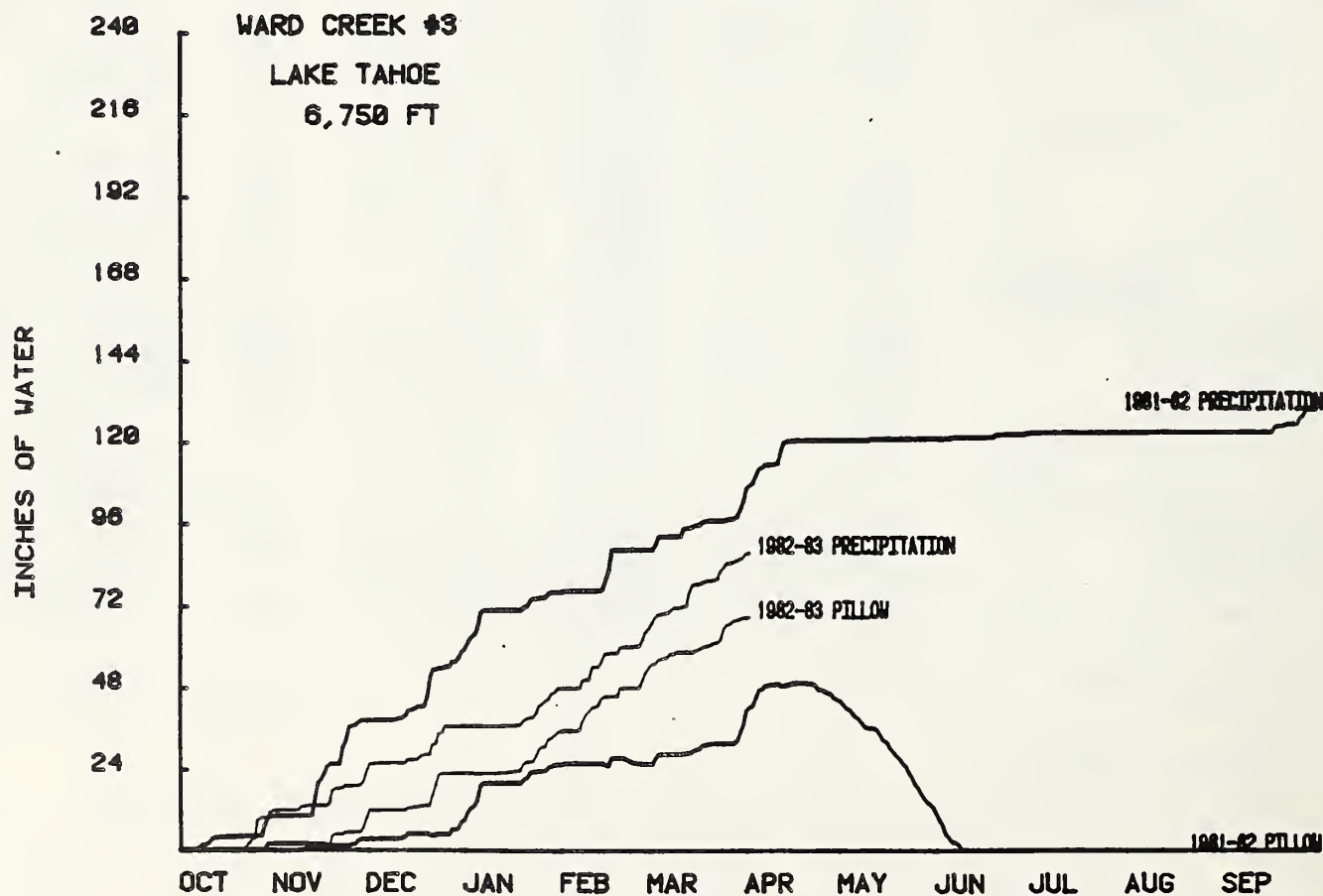
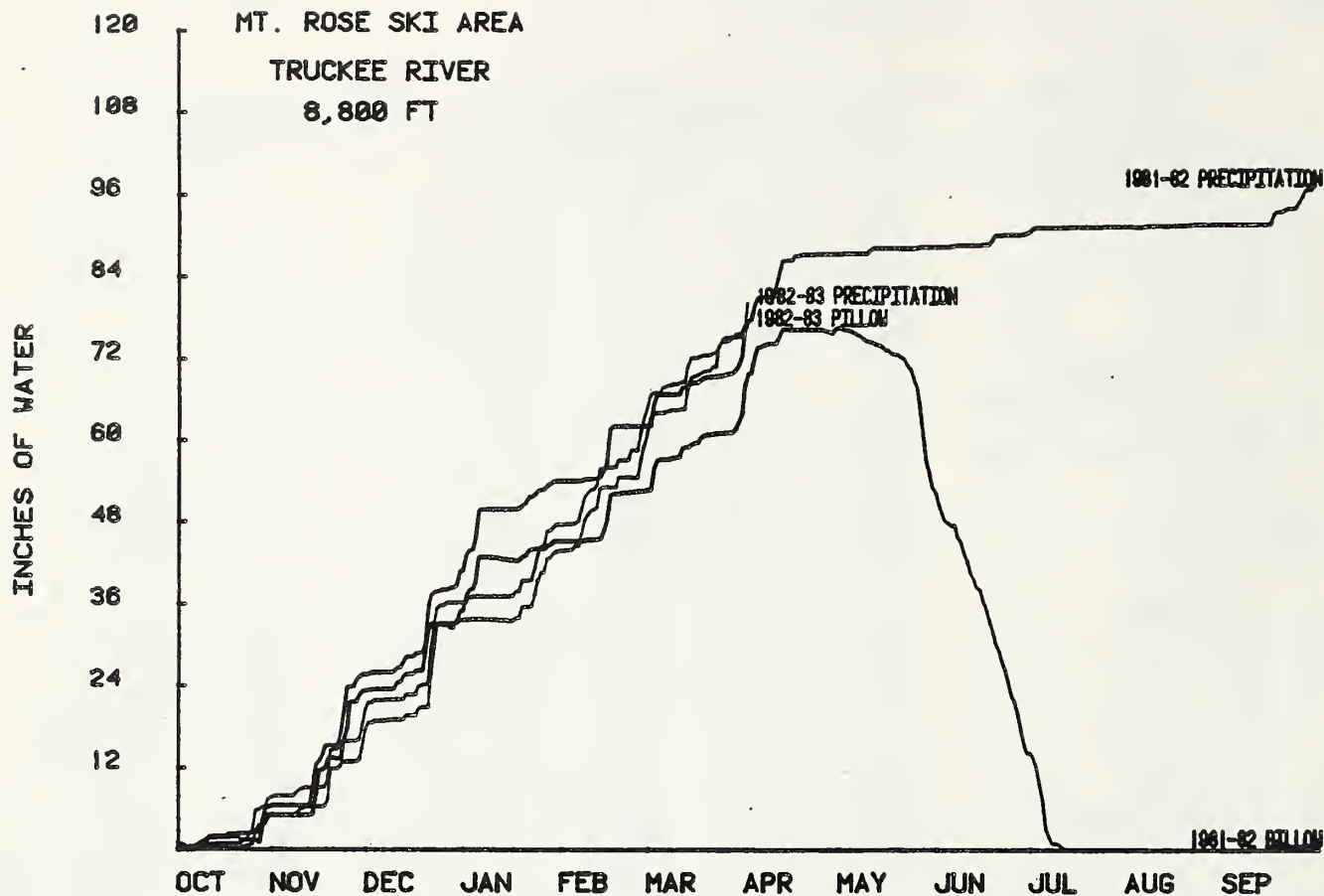
PRECIPITATION (Inches) FOR APRIL, 1983

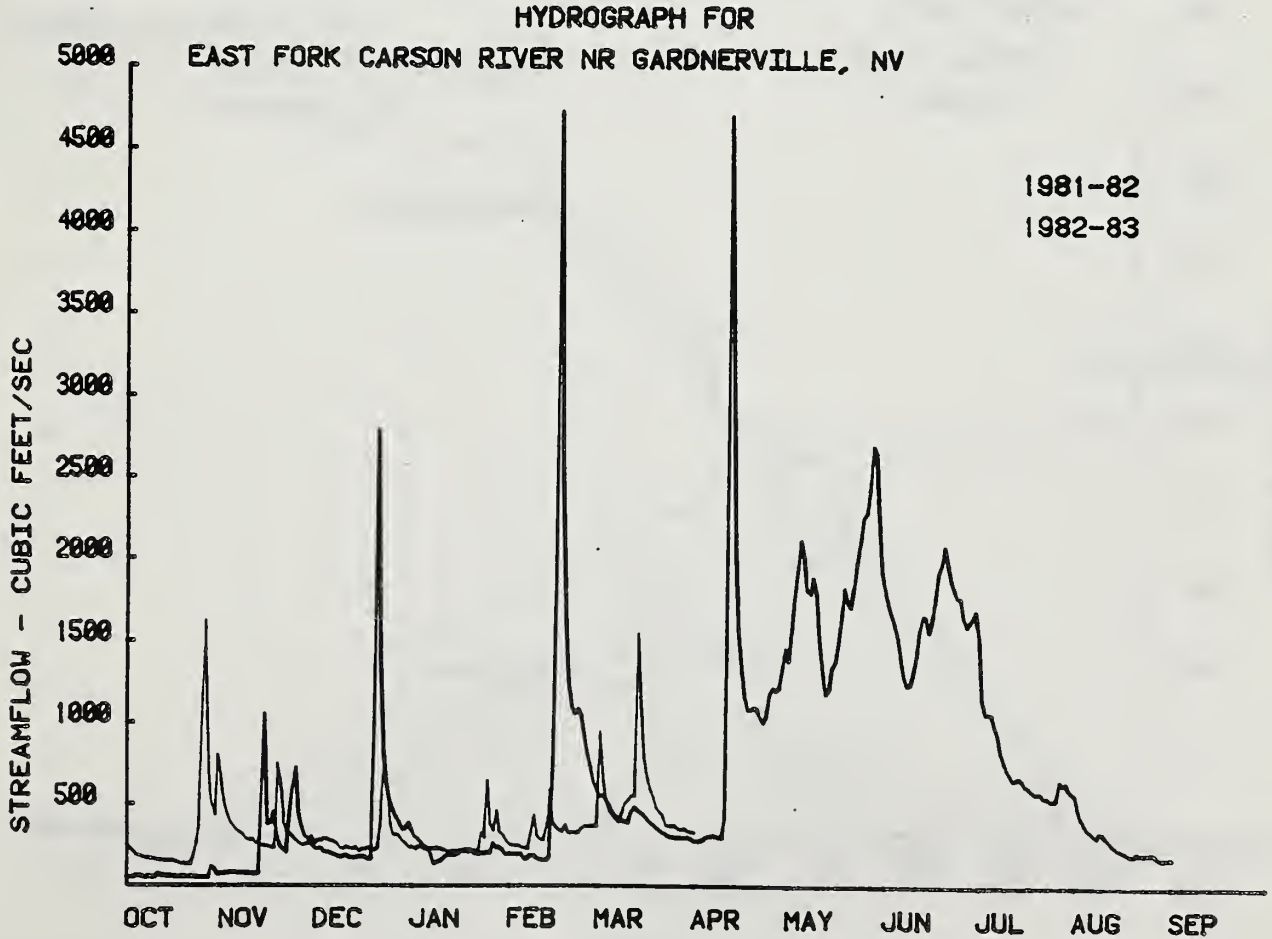
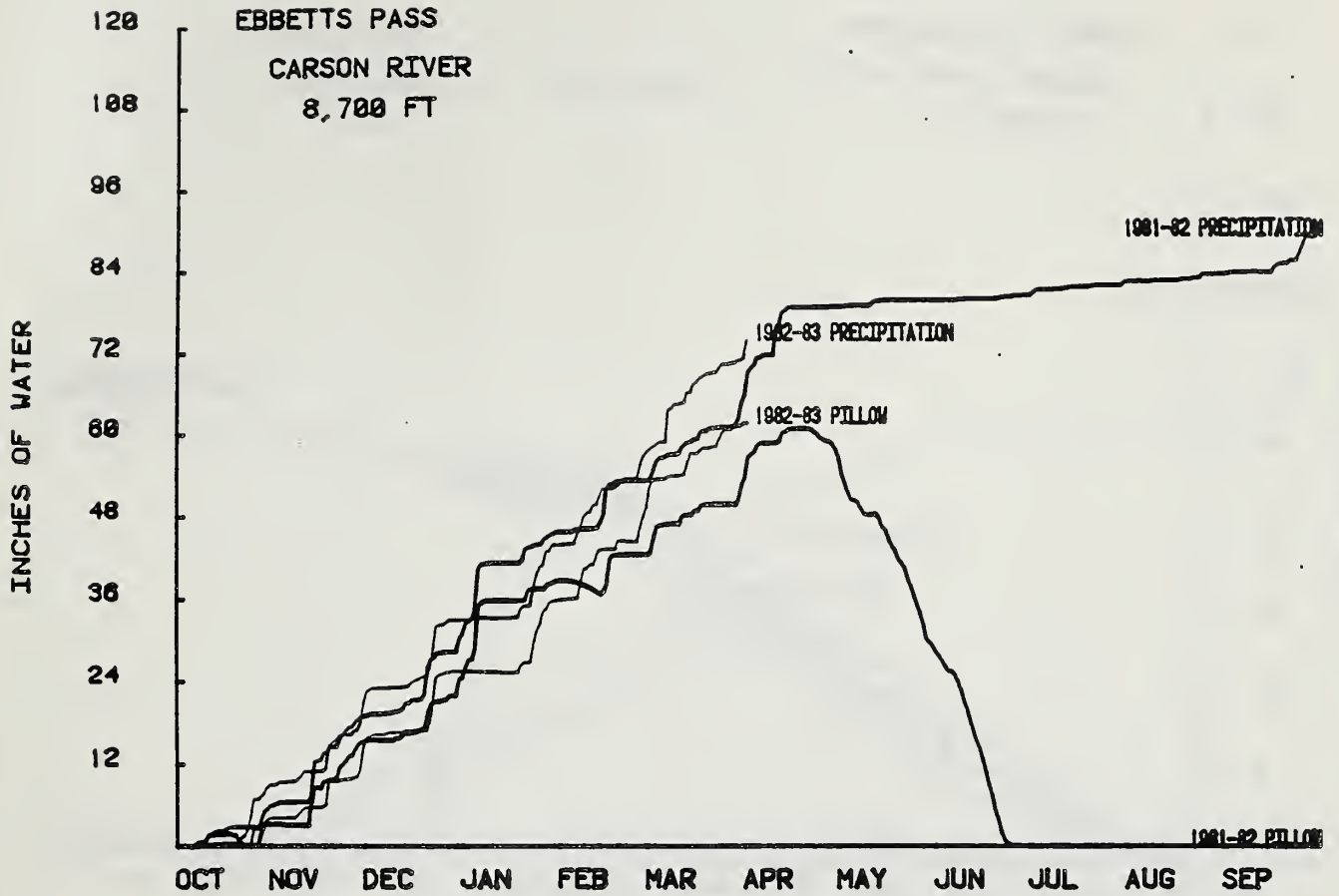
DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM OCTOBER 1 TO DATE		
		Date of Reading	Month's Precipitation	Last Year	This Year	Last Year	APRIL 1 AVERAGE
<u>TAHOE-TRUCKEE</u>							
Big Meadows	8,300	4/01/83	7.8	8.6	44.2	44.9	-
Central Sierra Snow Lab (CA)	6,900	4/01/83	20.3	-	83.9	-	-
Echo Peak (CA)	7,800	4/01/83	15.0	15.1e	78.1	77.9e	48.0
Fallen Leaf (CA)	6,240	4/01/83	8.8	11.3	45.0	50.0	9.9
Hagan's Meadow (CA)	8,000	4/01/83	7.3	7.4	35.4	42.9	20.5
Heavenly Valley (CA)	8,800	4/01/83	8.8	8.6	43.5	40.9	34.2
Independence Camp (CA)	7,000	4/01/83	11.1	11.0	45.3	57.0	32.5
Independence Creek (CA)	6,500	4/01/83	10.0	9.3	46.7	54.7	18.1
Independence Lake (CA)	8,450	4/01/83	13.6	15.4	62.9	62.5	44.6
Marlette Lake	8,000	4/01/83	9.9	9.4	46.6	45.4	21.7
Mt. Rose	9,000	4/01/83	15.6	8.0e	62.6	41.0e	26.2
Mt. Rose Ski Area	8,850	4/01/83	13.6	15.4	79.9	77.5	38.5
Rubicon #2 (CA)	7,500	4/01/83	8.2	13.1	52.3	63.4	31.8
Squaw Valley Gold Coast (CA)	7,800	4/01/83	22.2	26.6e	-	106.9e	55.9
Tahoe City Cross (CA)	6,750	4/01/83	7.7	8.8e	46.3	57.7e	19.5
Truckee #2 (CA)	6,400	4/01/83	9.6	10.8	43.8	53.2	15.0
Ward Creek #3 (CA)	6,750	4/01/83	20.7	19.0	87.8	107.5	56.9
<u>CARSON WALKER</u>							
Blue Lakes (CA)	8,000	4/01/83	7.7	13.3	63.0	62.0	37.4
Ebbetts Pass #2 (CA)	8,700	4/01/83	16.0	15.4	74.0	68.9	45.7
Leavitt Meadows (CA)	7,200	4/01/83	6.9	7.8	39.9	43.4	27.6
Lobdell Lake (CA)	9,200	4/01/83	4.7	5.6	34.3	27.8	19.0
Pine Nut Creek (CA)	6,600			1.3		16.3	
Poison Flat (CA)	7,900	4/01/83	7.3	8.3	43.0	43.4	20.8
Sonora Pass Bridge (CA)	8,800	4/01/83	10.5	11.5	51.6	50.0	29.2
Spratt Creek (CA)	6,080	4/01/83	7.0	8.4	45.5	46.3	24.7
Virginia Lake Ridge (CA)	9,200	4/01/83	5.9	6.2	39.1	31.0	18.6
Wet Meadows #2 (CA)	8,050	4/01/83	20.5	12.6	72.2	63.2	37.6
<u>HUMBOLDT</u>							
Big Creek Summit	8,700	4/01/83	9.0	6.2	25.7	17.0	12.9
Buckskin, Lower	6,700	4/01/83	6.8	4.4	22.8	23.8	13.2
Corral Canyon	8,500	4/01/83	6.9	8.1	24.6	23.9	18.7
Dorsey Basin	8,100	4/01/83	7.9	7.2	27.9	28.6	16.7
Fry Canyon	6,700	3/29/83	6.0	5.0	21.1	24.8	-
Granite Peak	7,800	4/01/83	7.1	4.6	29.7	28.6	18.1
Green Mountain	8,000	4/01/83	5.0	6.5	26.2	26.2	15.1
Lamance Creek	6,000	4/01/83	7.0	5.6	27.4	28.6	11.9
Lamoille #3	7,700	4/01/83	5.9	7.3	22.8	26.6	19.1
Rodeo Flat	6,800	3/29/83	3.5	4.0	15.5	21.0	-
Trout Creek, Lower	6,900	4/01/83	5.8	6.0	17.4	19.6	-
<u>SNAKE-OWYHEE</u>							
Bear Creek	7,800	4/01/83	6.6	7.2	25.9	31.7	20.8
Big Bend	6,700	4/01/83	3.5e	3.0	13.1	17.4	13.7
Boies Reservoir	5,800	4/04/83	-	-	5.5	-	-
Fawn Creek #2	7,000	4/01/83	6.8	6.5	28.4	31.0	24.5
Ford Corral	6,300	4/04/83	-	-	8.2	-	-
Goat Creek	8,800	4/01/83	7.7	8.7	28.2	31.8	21.1
Jack Creek #2, Upper	7,250	4/01/83	5.3	4.8	24.3	29.2	17.1
Jacks Peak	8,420	4/01/83	7.6	8.0	36.5	39.3	-
Laurel Draw	6,700	4/01/83	4.6	4.8	20.3	25.9	15.6
Pole Creek Ranger Station	8,330	4/01/83	3.7	5.2	14.2	18.7	15.0
Seventy Six Creek	7,100	4/01/83	3.4	2.8	16.9	20.5	14.4
Taylor Canyon	6,200	4/01/83	2.1	2.2	7.9	11.4	7.8
<u>EASTERN NEVADA</u>							
Berry Creek	9,100	4/01/83	3.3e	5.8	20.8	21.6	19.9
Hole-in-Mountain	7,900	4/01/83	5.5	7.0	22.8	37.0	-
Ward Mountain	8,900	4/01/83	3.5	8.1	21.6	22.6	15.9
<u>NORTHERN GREAT BASIN</u>							
Cedar Pass (CA)	7,100	4/01/83	10.0	7.1	33.2	34.9	24.4
Disaster Peak	6,500	4/01/83	6.1	3.5	24.1	23.7	15.3
Dismal Swamp #2 (CA)	7,050	4/01/83	12.6	8.3	50.3	52.6	50.2
Ferguson Ranch	5,560	3/22/83	2.7	1.4	14.9	8.8	-
49 Mountain	6,000	3/28/83	5.5	2.3	15.0	12.3	-
Mt. Bidwell (CA)	7,240	3/24/83	6.0	4.0	35.1	42.4	-
All Data SNOTEL Provisional							

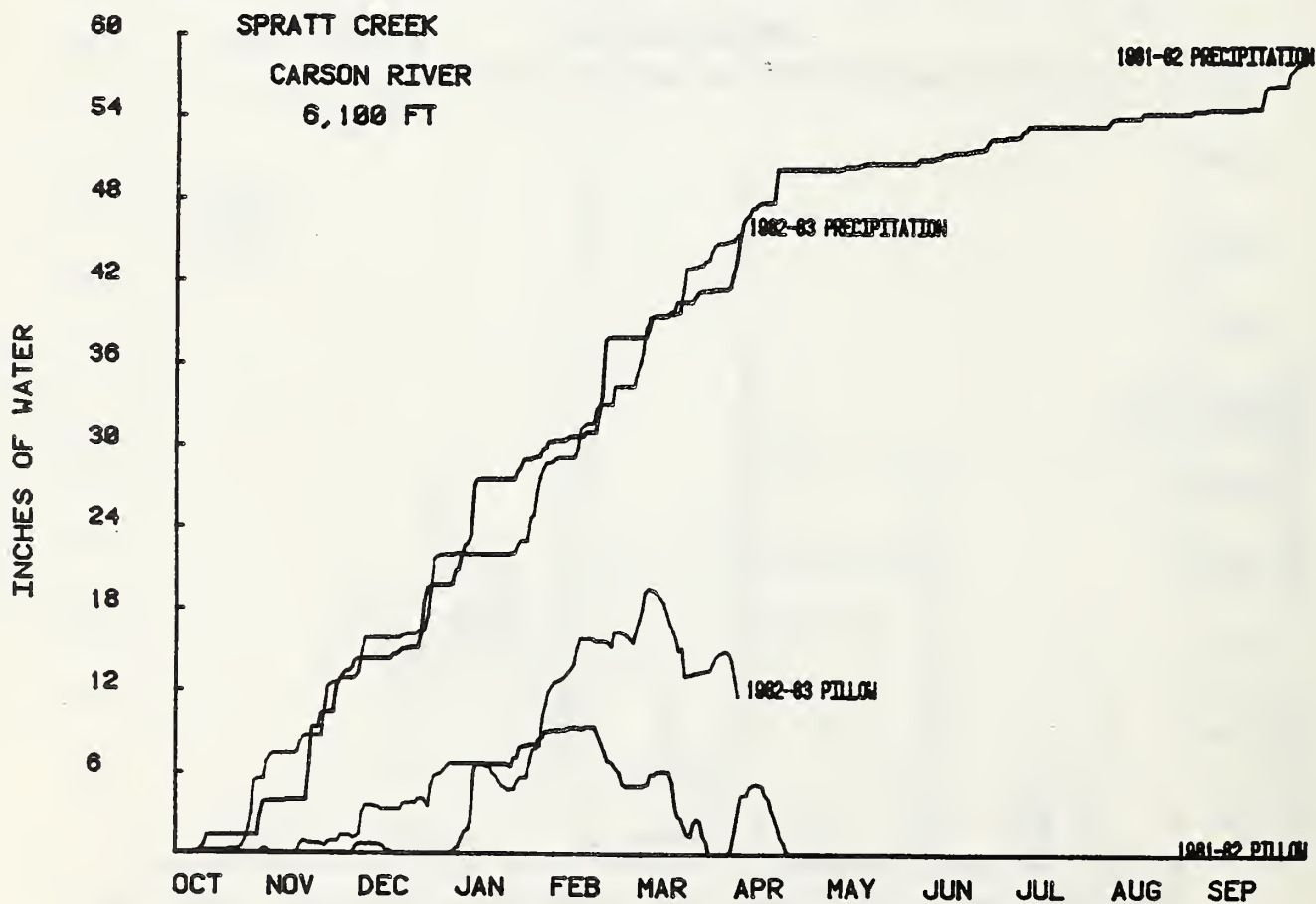
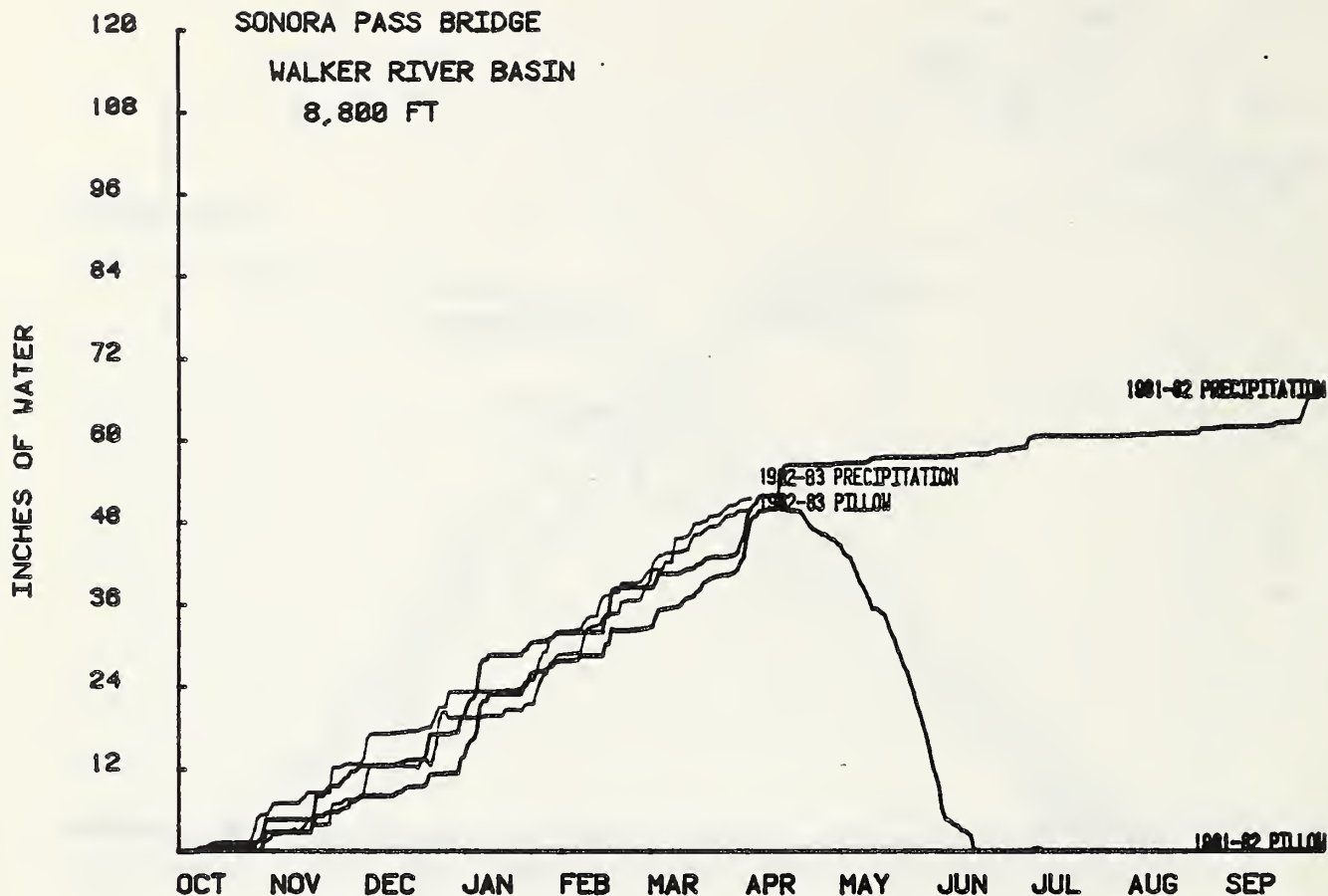
PRECIPITATION (Inches)

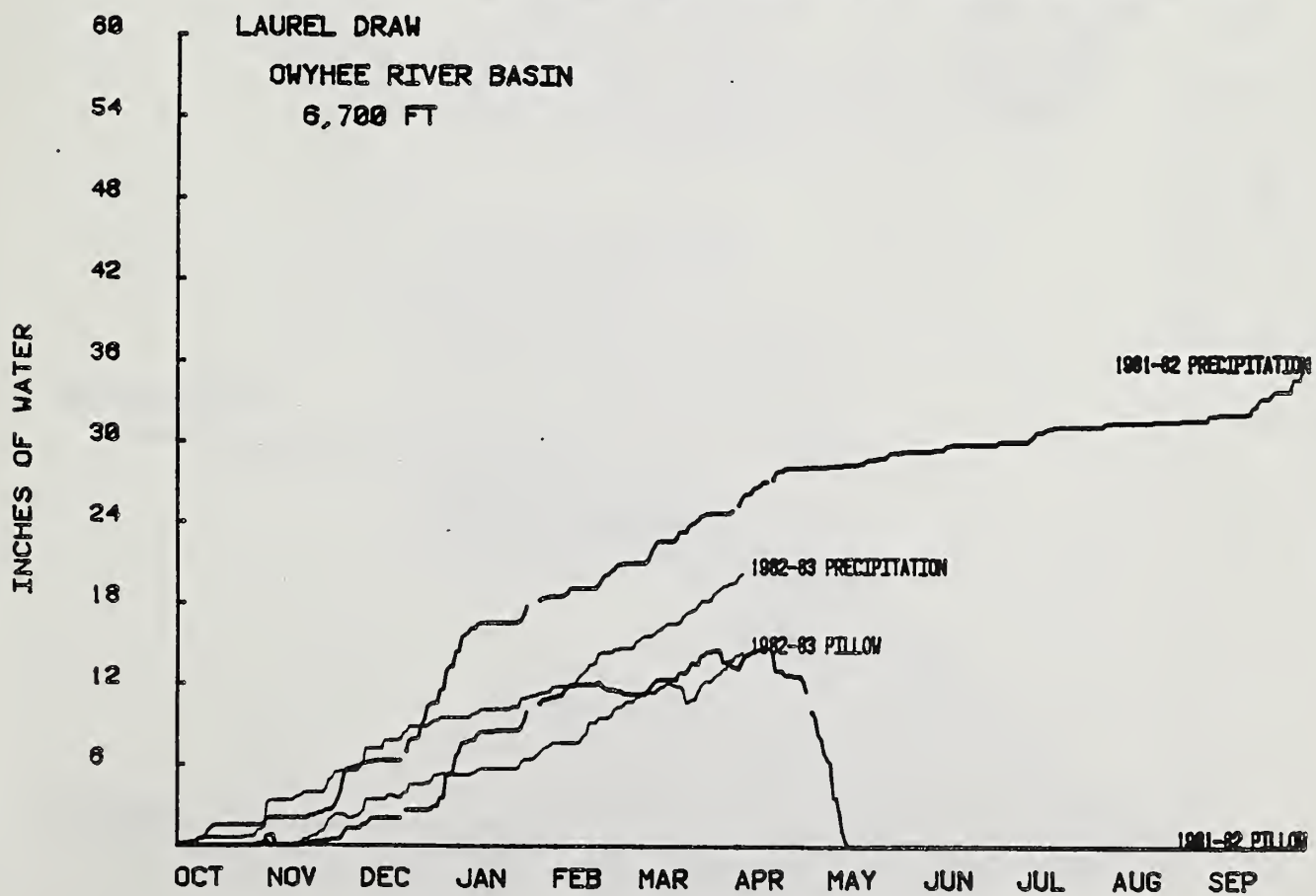
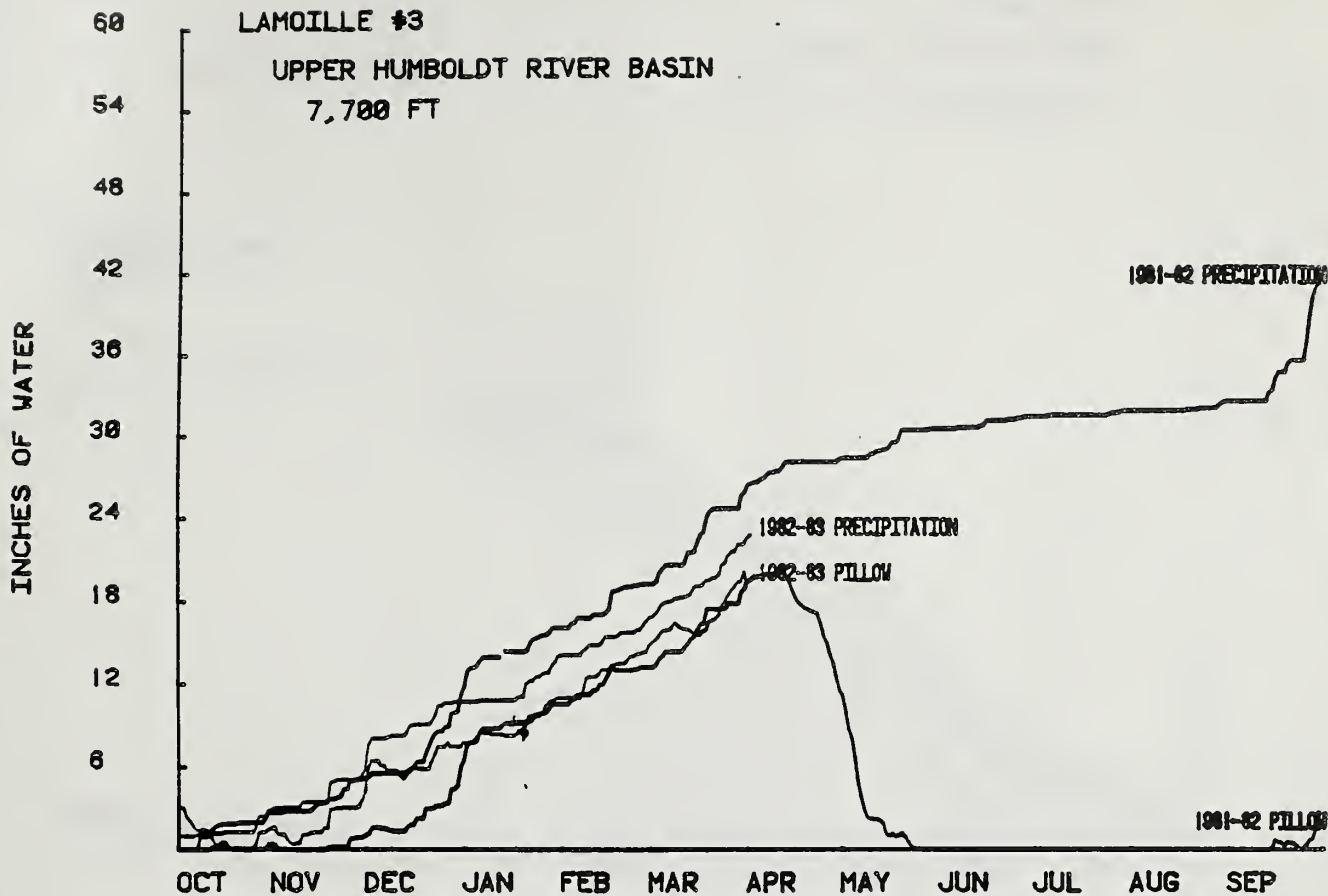
FOR APRIL, 1983, NATIONAL WEATHER SERVICE - RENO, NEVADA

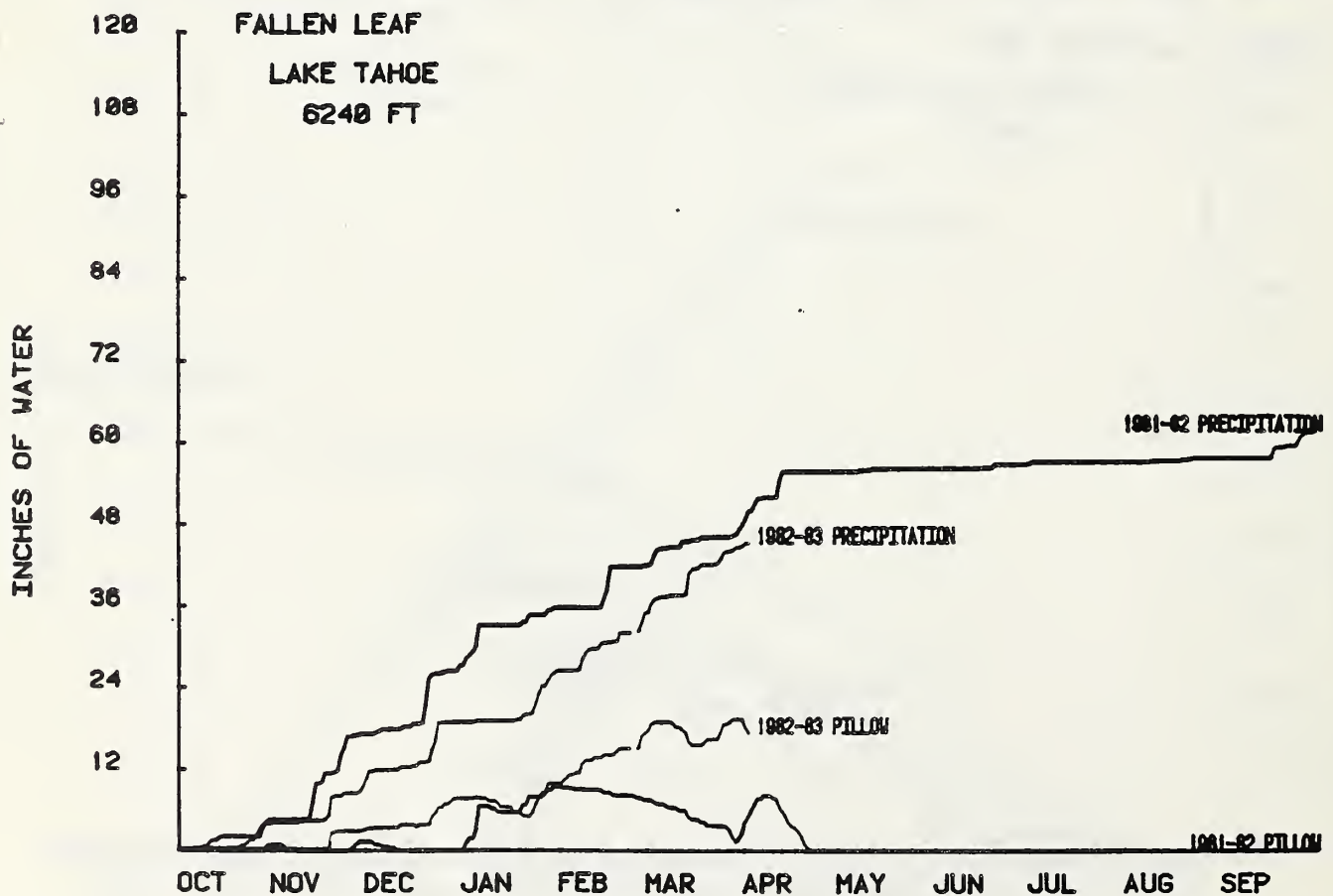
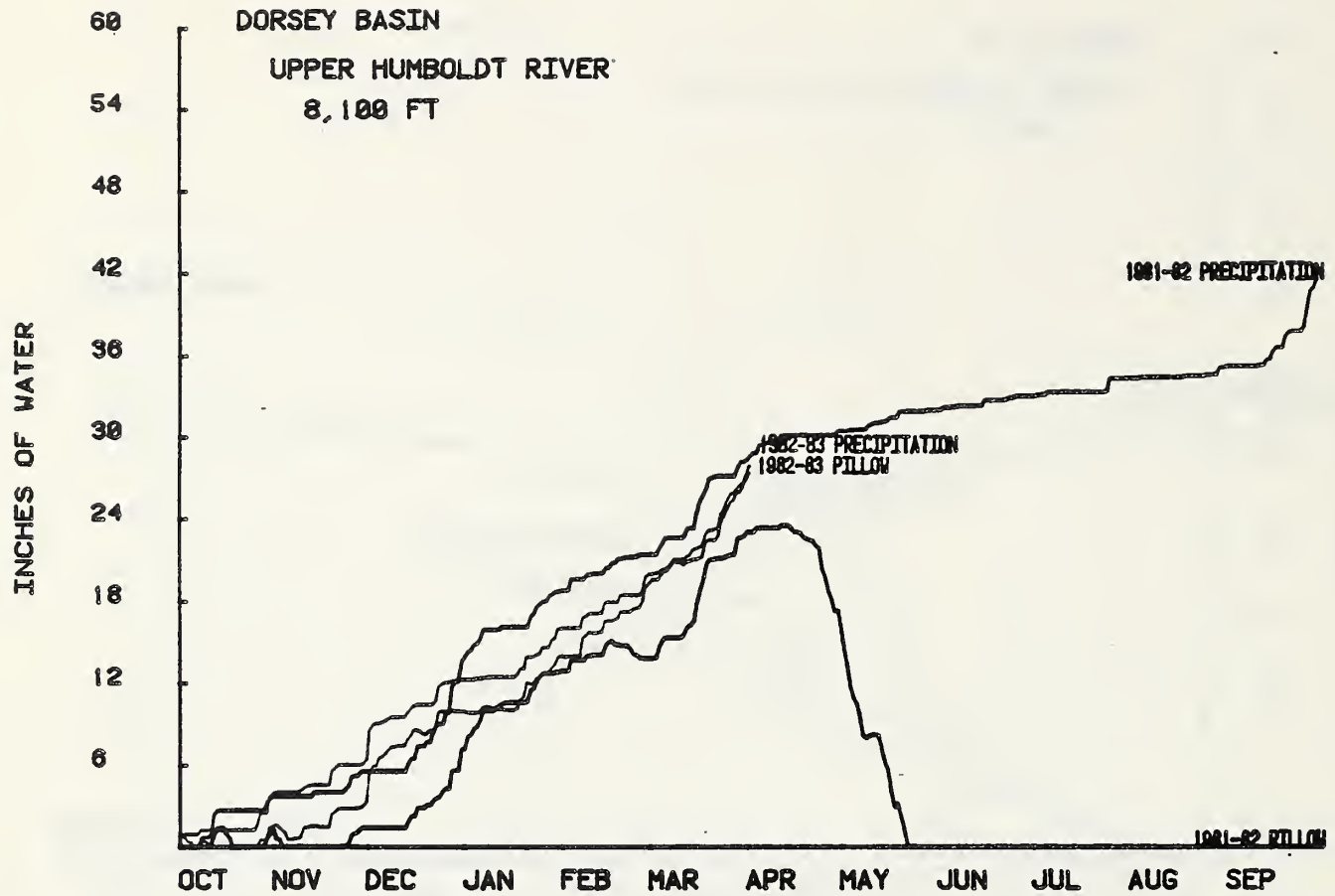
DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			OCTOBER 1 TO DATE.		
		Month's Precip.	Last Year	*Normal	This Year	Last Year	*Normal
<u>TRUCKEE-TAHOE</u>							
Boca	5,575	6.92	5.37	2.49	34.29	31.66	17.57
Glenbrook	6,350	5.23	6.46	2.07	26.64	26.95	14.52
Incline Village	6,550	9.25	6.72	2.62	32.89	35.87	17.94
Reno	4,404	1.31	1.14	.70	10.01	6.57	4.96
Sierraville	4,975	8.50	4.54	2.85	38.88	42.49	22.64
Tahoe City	6,230	8.61	9.68	3.92	42.99	54.50	27.75
Truckee Ranger Station	5,995	6.54	8.68	4.00	38.68	45.70	27.13
<u>CARSON-WALKER</u>							
Bridgeport Ranger Station	6,560	2.30	1.20	1.04	14.23	7.00	8.93
Carson City	4,651	2.77	1.01	1.11	16.03	12.77	9.14
Fallon Experiment Station	3,965	1.02	.66	.47	5.74	2.86	2.59
Hawthorne	4,215	.45	.26	.44	2.66	1.40	2.19
Minden	4,720	2.66	1.17	.79	*	7.87	6.17
Twin Lakes	7,829	13.34	13.05	6.90	47.91	59.03	40.58
Woodfords	5,971	4.46	3.50	2.01	31.69	27.75	16.49
Yerington	4,375	1.02	.20	.41	4.58	2.12	3.03
<u>HUMBOLDT</u>							
Austin	6,605	1.99	2.99	1.36	9.88	8.93	6.26
Battle Mountain	4,530	.68	.08	.61	3.96	2.08	3.95
Deeth	5,338	2.18	2.75	.98	10.81	9.66	4.89
Elko	5,075	1.91	1.94	.83	8.73	7.83	5.56
Emigrant Pass	5,755	2.64	2.49	1.39	9.89	8.75	7.14
Jiggs	5,760	2.41	3.16	1.10	10.06	7.10	6.06
Lamoille	5,800	1.35	2.76	2.10	*	9.86	9.83
Lovelock FAA	3,900	1.28	1.24	.34	5.47	3.89	2.60
Wildhorse Reservoir	6,600	1.28	*	*	*	*	*
Paradise Valley	4,675	2.53	.86	.89	10.32	11.24	6.15
Wells	5,650	2.09	2.06	.90	7.14	8.80	5.72
Winnemucca	4,301	1.46	1.39	.71	6.74	5.95	5.05
<u>SNAKE-OWYHEE</u>							
Contact	5,365	.99	1.26	.70	4.69	7.30	4.01
Mountain City	5,620	1.71	1.59	*	7.33	8.79	*
Owyhee	5,396	2.37	2.31	1.35	9.20	9.55	7.09
Tuscarora	6,170	2.02	2.41	1.52	12.07	14.26	8.64
<u>EASTERN NEVADA</u>							
Arthur	6,280	3.09	3.40	1.57	12.50	14.02	8.68
Ely	6,253	1.18	2.07	.85	6.69	7.54	4.06
Montello	4,880	1.19	1.18	.32	5.20	4.03	3.00
Pequop	6,030	2.12	3.16	*	9.83	10.80	*
Ruby Lake	6,012	2.60	2.93	1.26	9.92	11.75	7.40
<u>NORTHERN GREAT BASIN</u>							
Alturas Ranger Station	4,400	2.86	1.56	1.19	10.26	10.23	8.41
Cedarville	4,670	2.85	.92	1.18	9.43	13.88	10.04
Ft. Bidwell	4,498	3.82	1.93	1.39	16.29	17.63	11.21
Orovada	4,310	2.22	1.47	1.00	7.33	8.23	6.35
Susanville	4,148	2.98	2.25	1.26	17.50	16.29	11.52
<u>CENTRAL GREAT BASIN</u>							
Tonopah	5,426	2.42	1.26	.23	6.12	3.47	1.87
<u>LOWER COLORADO RIVER</u>							
Caliente	4,402	2.94	.14	.88	7.51	1.60	4.77
Las Vegas	2,162	.90	.29	.33	3.03	1.92	2.10
Pioche	6,165	3.95	3.33	1.37	12.28	6.62	7.61
Bishop	4,118	1.20	1.50	.43	8.53	3.45	4.58
* Not Available							
T Trace							
Normals are for 30 year period of 1941-1970.							











AGENCIES COOPERATING IN COLLECTING DATA CONTAINED IN THIS BULLETIN

FEDERAL

Agricultural Research Service
Bureau of Reclamation
Fish and Wildlife Service
Forest Service
Geological Survey
Soil Conservation Service
U. S. District Court - Federal Water Master
NOAA, National Weather Service

STATE

California Cooperative Snow Surveys
California Department of Parks and Recreation
California Department of Water Resources
Colorado River Commission of Nevada
Idaho Cooperative Snow Surveys
Nevada Association of Conservation Districts
Nevada Department of Conservation & Natural Resources
 Division of Water Resources
 Nevada State Forester
Oregon Cooperative Snow Surveys
University of Nevada, Desert Research Institute
Utah Cooperative Snow Surveys
White Mountain Research Station, Univ. of California

PRIVATE

Amalgamated Sugar Company
Kennecott Copper Corporation
Nevada Irrigation District
Owyhee Project North Board of Control
Owyhee Project South Board of Control
Pacific Gas and Electric Company
Pershing County Water Conservation District
Sierra Pacific Power Company
Truckee - Carson Irrigation District
Walker River Irrigation District
Washoe County Water Conservancy District

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

P.O. Box 4850
RENO, NEVADA 89505

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

BULK RATE
U.S. POSTAGE
PAID
RENO, NEVADA
PERMIT #114

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*

USDA NATIONAL AGRICULTURAL LIB
TIS/SEA/USDA, RM 002
CURRENT SERIAL RECORD
BELTSVILLE, MD 20705